

## ACCENTURE PAPER ON 10th DECEMBER

direction for q. 1-3

choose the option which will correctly fill the blank.

1. she has great love and affection \_\_\_\_\_ her grandmother.  
a). for    b). from    c). with    d) to                      Ans... a
2. but there is more \_\_\_\_\_ Argentina's red wines than Malbec only.  
a. in    b. to    c. from    d. at                      Ans... b
3. opapue glass is the kind of material \_\_\_\_\_ which you cannot see.  
a. into    b. through    c. from    d. between              Ans... b

choose the word nearest in meaning

4. 25 paise coins are fast becoming.. obsolete.  
a. smaller    b. older    c. rare    d. outdated              Ans... d
5. the omly evidance was a pice of crumpled paper lying in a cornor.  
a. torn    b. burnt    c. wrinkled    d. dirty                      Ans... c
6. his plans started going awry the moment he began his journy to nagaland.  
a. well    b. smoothly    c. wrong    d. slowly                      Ans... c

fill in blank with article.

7. the brahmputra rises in the himaliya in \_\_\_\_\_ Tibet.  
a. a    b. an    c. the    d. no article need              Ans... d
8. it is suspect that \_\_\_\_\_ colleague committed the murder.  
a. a    b. an    c. the    d. no article need              Ans... a
9. \_\_\_\_\_ ice-pick was used for the murder.  
a. a    b an.    c. the    d. no article need              Ans... b
10. it was no dout \_\_\_\_\_ stupidity to admit her into our gang  
a. a    b. an    c. the    d. no article need.              Ans... a

Directions for Questions 11-15:

Read the passage and answer the questions that follow on the basis of the information provided in the passage.

Microprocessor is an electronic computer Central Processing Unit (CPU) made from miniaturized transistors and other circuit elements on a single semiconductor Integrated Circuit (IC). Before the advent of microprocessors, electronic CPUs were made from individual small-scale Integrated Circuits containing the equivalent of only a few transistors. By integrating the processor onto one or a very few large-scale Integrated Circuit packages (containing the equivalent of thousands or millions of discrete transistors), the cost of processor power was greatly reduced.

The evolution of microprocessors has been known to follow Moore's Law when it comes to steadily increasing performance over the years. This law suggests that the complexity of an Integrated Circuit with respect to minimum component cost will double in about 18 months. From humble beginnings as the drivers for calculators, the continued increase in power has led to the dominance of microprocessors over every other form of computer; every system

from the largest mainframes to the smallest handheld computers now uses a microprocessor at their core. As with many advances in technology, the microprocessor was an idea whose time had come.

Three projects arguably delivered a complete microprocessor at about the same time: Intel's 4004, Texas Instruments' TMS1000, and Garrett AiResearch's Central Air Data

Computer. A computer-on-a-chip is a variation of a microprocessor,

which combines the microprocessor core (CPU), some memory, and I/O (input/output) lines, all on one chip. The proper meaning of microcomputer is a computer using a (number of) microprocessor(s) as its CPU(s), while the concept of the patent is somewhat more similar to a micro controller.

11) Which of the following descriptions would NOT fit a microprocessor?

A) Electronic computer

B) Central Processing Unit

C) Memory disk

D) A single integrated chip circuit.

Ans... c

12) Select the TRUE statement from the following.

A) Microprocessors and computers on a chip are variations of each other.

B) Integration of processing power on chips has made processing power cheaper.

C) Before microprocessors, CPUs were not made from individual small scale ICs.

D) A microprocessor circuit only has transistors in it.

Ans... c

13) Which of the following was NOT the first to develop a microprocessor?

A) Microsoft

B) Intel

C) Texas Instruments

D) Garret                      Ans... a

14) According to the passage, which of these is NOT a use of microprocessors?

A) Drivers for calculators

B) Core for large mainframes

C) Advanced mobile phones

D) Used for small handheld computers                      Ans... c

15) "A number of microprocessors at its CPU" is an apt description of a:

A) Micro-controller

B) Micro-computer

C) Micro-processor

D) Micro-transistor                      Ans... b

section 2 analytical.. .....

out of the 727 members of a club, 600 decide in favour of cricket while 173 decide in favour of cricket and hockey. each member gives his opinion about at least one of the two games.

21. how many of them decide in favour of hockey?

a. 250   b. 300   c. 560   d. 600                      Ans... b

22. how many of them decide in favour of only hockey?

a. 127   b. 280   c. 326   d. 494                      Ans... a

During a games show held in a school, 40 students play game 1, 67 play game 2, 46 play game 3, 8 students played game 1 & 3 games. 26 students played game 1 & 2. 28 students played game 2 & 3. 2 students played all the three games.



- I. the cost price =  $\frac{2}{3}$  of the sale price.  
 II. selling price of 100 mangoes = Rs. 240  
 a. 1 b. 2 c. 3 d. 4

Ans... b

direction for q. 33 to 37.

0 is represented to \*  
 1 is represented to \$

33. 601 can be represented as....

- a. \$\*\*\$\$\*\*\$\$\$ b. \$\*\$\$\$\$\$\*\$\$ c. \$\*\*\$\*\$\$\*\*\$ d. \$\*\$\$\$\*\$\$\*\*\$

Ans... c

34. the value of  $[\text{lcm}(18, 20, 36) / 90]$  can be represented as

- a. \$\* b. \$\$ c. \$\$\* d. \$\$\$\$

Ans... a

35. 454 can be represented as.....

- a. \$\*\$\$\$\*\*\$ b. \$\$\*\$\$\$\$\*\* c. \$\$\$\*\*\$\$\*\$ d. \$\*\$\*\$\*\*\$

Ans... c

36.  $(\$*\$*)^{\text{pow } \$*}$  can be.....

- a. 450 b. 550 c. 650 d. 676

Ans... d

37. the value of  $[\text{average}(64, 74, 104) * 3]$  can be...

- a. \$\$\$\$\*\*\$\* b. \$\*\*\*\*\*\$\* c. \$\*\*\*\$\*\$\* d. \$\$\$\$\*\$\$

Ans... a

38. pointed to a man, saraj said, "he is the brother of my uncle's daughter". how is the man related to saraj?

- a. son b. cousin c. nephew d. uncle

Ans... b

39. sita and mona are narain's wives and bindu is mona's step-daughter. how is sita related to bindu?

- a. sister b. mother-in-law c. mother d. none

Ans... c

40. if south-east is called east, north-west is called west and so on, what will north be called?

- a. east b. north-west c. north-east d. north

Ans... c

direction for q. 41 to 45.

- A. all three are same.  
 B. only 1 & 2 same.  
 C. only 1 & 3 same.  
 d. none

41. GGGGMMMGG GGGGMMMGGG GGGGMGMGGG

- A. A B. B C. C D. D

Ans... b

42 7765.878762342 7765.878762342 7765.878762342

A. A B. B C. C D. D                      Ans... a

43. 5364.1980886    5364.1980786    5364.1979886  
A. A B. B C. C D. D                      Ans... d

44. papanicolaou    papanicolaoi    papanicolaou  
A. A B. B C. C D. D                      Ans... b

45. skeptic should    skeptick should    sckeptic should  
A. A B. B C. C D. D                      Ans... d

46. if A. addition    s. subtraction    M. multiplication    D. division  
V. equale to    W. greater than    X. less than

- a. 6 S 7 A 2 M 3 W 0 D 7
- B. 6 A 7 S 2 M 3 W 0 A 7
- C. 6 S 7 M 2 S 3 W 0 M 7
- D. 6 M 7 S 2 A 3 X 0 D 7

Ans... a

## Accenture Aptitude Questions and Answers with Explanation

1. A certain number of men take 45 days to complete work. If there are 10 men less then they will take 60 days to complete the work. Find the original number of men.

- A. 50
- B. 60
- C. 30
- D. 40

**Answer – D. 40**

**Explanation:**

Let us assume initially there are X men. Then  $x \cdot 45 = (x-10) \cdot 60$ . So we get  $x = 40$

2. 5 men and 10 boys can do a piece of work in 30 days and 8 men and 12 boys can do the work in 20 days then the ratio of daily work done by a man to that of a boy.

- A. 5:1
- B. 4:5
- C. 6:1
- D. 7:3

**Answer – C. 6:1**

**Explanation:**

Given that,  $5m + 10b = 1/30$  and  $8m + 12b = 1/20$

after solving we get  $m = 1/200$  and  $b = 1/1200$

so required ratio =  $(1/200) : (1/1200) = 6:1$

3. 4 women and 5 men working together can do 3 times the work done by 2 women and one man together. Calculate the work of a man to that of a woman.

- A. 1:1
- B. 3:2
- C. 1:2
- D. 2:1

**Answer – A. 1:1**

**Explanation:**

Given

$$4w + 5m = 3(2w + m)$$

$$\text{i.e. } 2w = 2m$$

so the ratio of work done by man to woman is 1:1

## Accenture Aptitude Questions and Answers with Explanation

4. Manoj can do a work in 20 days, while Chandu can do the same work in 25 days. They started the work jointly. A few days later Suresh also joined them and thus all of them completed the whole work in 10 days. All of them were paid total Rs.1000. What is the share of Suresh?

- A. 100
- B. 300
- C. 200
- D. 400

**Answer – A. 100**

**Explanation:**

Efficiency of Manoj = 5%

The efficiency of Chandu = 4%

They will complete only 90% of the work =  $[(5+4)*10] = 90$

Remaining work was done by Suresh = 10%.

Share of Suresh =  $10/100 * 1000 = 100$

5. Nagarjuna lends Rs 30,000 of two of his friends. He gives Rs 15,000 to the first at 6% p.a. simple interest. He wants to make a profit of 10% on the whole. The simple interest rate at which he should lend the remaining sum of money to the second friend is

- A. 8%
- B. 12%
- C. 14%
- D. 16%

**Answer - C. 14%**

**Explanation:**

Simple Interest on Rs 15000

$= (15000 \times 6 \times 1) / 100 = \text{Rs. } 900$

Profit to made on Rs 30000

$= 30000 \times 10 / 100 = \text{Rs } 3000$

Simple Interest on Rs.15000 =  $3000 - 900 = \text{Rs. } 2100$

Rate =  $(\text{S.I.} * 100) / (P * T) = (2100 \times 100) / 15000$

$= 14\%$  per annum

Therefore, the simple interest rate at which he should lend the remaining sum of money to the second friend is 14%



## Accenture Aptitude Questions and Answers with Explanation

6. A portion of \$6600 is invested at a 5% annual return, while the remainder is invested at a 3% annual return. If the annual income from the portion earning a 5% return is twice that of the other portion, what is the total income from the two investments after one year?

- A. 270
- B. 250
- C. 280
- D. 200

**Answer - A. 270**

**Explanation:**

According to the given data

$$5x + 3y = z \text{ (total)}$$

$$x + y = 6600$$

$$5x = 2(3y) \text{ [ condition given] } 5x - 6y = 0$$

$$x + y = 6600$$

$$5x - 6y = 0$$

Subtract both equations and you get  $x = 3600$  so  $y = 3000$

$$3600 \cdot 0.05 = 180$$

$$3000 \cdot 0.03 = 90$$

$$z \text{ (total)} = 270$$

Therefore, the total income from the two investments after one year = 270

7. While calculating the weight of a group of men, the weight of 63 kg of one of the member was mistakenly written as 83 kg. Due to this the average of the weights increased by half kg. What is the number of men in the group?

- A. 25
- B. 20
- C. 40
- D. 60

**Answer - C. 40**

**Explanation:**

Increase in marks lead to an increase in average by  $1/2$

$$\text{So } (83-63) = x/2$$

$$x = 40$$

Therefore, the number of men in the group are 40

## Accenture Aptitude Questions and Answers with Explanation

8. In a group of 8 boys, 2 men aged at 21 and 23 were replaced, two new boys. Due to this the average cost of the group increased by 2 years. What is the average age of the 2 new boys?

- A. 17
- B. 30
- C. 28
- D. 23

**Answer - B. 30**

**Explanation:**

According to the given data

Average of 8 boys increased by 2, this means the total age of boys increased by  $8 \times 2 = 16$  yrs

So sum of ages of two new boys =  $21 + 23 + 16 = 60$

Average of these =  $60/2 = 30$

9. A Boat takes total 16 hours for traveling downstream from point A to point B and coming back point C which is somewhere between A and B. If the speed of the Boat in Still water is 9 Km/hr and the rate of stream is 6 Km/hr, then what is the distance between A and C?

- A. 60 Km
- B. 90 Km
- C. 30 Km
- D. Cannot be determined

**Answer – D. Cannot be determined**

**Explanation:**

$$16 = D/9+6 + x/9-6$$

10. A Boat going upstream takes 8 hours 24 minutes to cover a certain distance, while it takes 5 hours to cover 5/7 of the same distance running downstream. Then what is the ratio of the speed of boat to speed of water current?

- A. 11:5
- B. 11:6
- C. 11:1
- D. 6:5

## Accenture Aptitude Questions and Answers with Explanation

**Answer – C. 11:1**

**Explanation:**

$$(S-R)*42/5 = (S+R)*7$$

$$S:R = 11:1$$

**11. A Boat takes 128 min less to travel to 48 Km downstream than to travel the same distance upstream. If the speed of the stream is 3 Km/hr. Then Speed of Boat in still water is?**

- A. 12 Km/hr
- B. 15 Km/hr
- C. 6 Km/hr
- D. 9 Km/hr

**Answer – A. 12 Km/hr**

**Explanation:**

$$32/15 = 48(1/s-3 - 1/s+3)$$

$$s = 12$$

Therefore, Speed of Boat in still water is 12 Km/hr.

**12. An alloy contains Brass, Iron, and Zinc in the ratio 2:3:1 and another contains Iron, zinc, and lead in the ratio 5:4:3. If equal weights of both alloys are melted together to form a third alloy, then what will be the weight of lead per kg in new alloy?**

- A. 1/4
- B. 41/7
- C. 1/8
- D. 51/9

**Answer – C. 1/8**

**Explanation:**

Shortcut:

In the first alloy,

$$2:3:1 = 6*2$$

$$5:4:3 = 12$$

Multiply 2 to make it equal,

$$4:6:2$$

$$5:4:3$$

Adding all,

$$4:11:6:3=24$$

$$3/24=1/8$$

## Accenture Aptitude Questions and Answers with Explanation

13. A milkman mixes 6 liters of free tap water with 20 litres of pure milk. If the cost of pure milk is Rs.28 per liter the % Profit of the milkman when he sells all the mixture at the cost price is

- A. 30%
- B.  $16\frac{1}{3}\%$
- C. 25%
- D. 16.5%

**Answer – A. 30%**

**Explanation:**

$$\text{Profit} = 28 * 6 = 168$$

$$\text{Cp} = 28 * 20 = 560$$

$$\text{Profit} = \frac{168 * 100}{560} = 30\%$$

14. 144 liters of the mixture contains milk and water in the ratio 5: 7. How much milk needs to be added to this mixture so that the new ratio is 23: 21 respectively?

- A. 40 liters
- B. 28 liters
- C. 32 liters
- D. 36 liters

**Answer – C. 32 liters**

**Explanation:**

$$144 == 5:7$$

$$60: 84$$

$$\text{Now} == 21 = 84$$

$$23 = 92$$

$$92 - 60 = 32$$

15. A shopkeeper bought 30kg of rice at Rs.75 per kg and 20 kg of rice the rate of Rs.70. per kg.If he mixed the two brand of rice and sold the mixture at Rs.80 per kg. Find his gain

- A. Rs.350
- B. Rs.550
- C. Rs.420
- D. Rs.210

**Answer – A. Rs.350**

## Accenture Aptitude Questions and Answers with Explanation

### Explanation:

$$\begin{aligned} \text{CP} &= 30 \times 75 + 20 \times 70 = 2250 + 1400 \\ &= 3650 \\ \text{SP} &= 80 \times (30 + 20) = 4000 \\ \text{Hence, Gain} &= 4000 - 3650 = 350 \end{aligned}$$

16. Cost price of 80 notebooks is equal to the selling price of 65 notebooks. The gain or loss % is

- A. 32%
- B. 42%
- C. 27%
- D. 23%

**Answer – D. 23%**

### Explanation:

$$\begin{aligned} \% &= [80 - 65/65] \times 100 \\ &= 15 \times 100/65 = 1500/65 \\ &= 23.07 = 23\% \text{ profit} \end{aligned}$$

Therefore, the gain percentage is 23%.

17. Eight years ago, Pranathi's age was equal to the sum of the present ages of her one son and one daughter. Five years hence, the respective ratio between the ages of her daughter and her son that time will be 7:6. If Pranathi's husband is 7 years elder to her and his present age is three times the present age of their son, what is the present age of the daughter?

- A. 19 years
- B. 27 years
- C. 15 years
- D. 23 years

**Answer – D. 23 years**

### Explanation:

$$\begin{aligned} P - 8 &= S + D \text{ ---(1)} \\ 6D + 30 &= 7S + 35 \text{ ---(2)} \\ H &= 7 + P \\ H &= 3S \\ 3S &= 7 + P \text{ ---(3)} \end{aligned}$$

Solving equation (1),(2) and (3)  $D = 23$

Therefore, the present age of the daughter is 23 years

## Accenture Aptitude Questions and Answers with Explanation

18. Shas married 8 year ago. Today her age is  $\frac{9}{7}$  times to that time of marriage. At present his son's age is  $\frac{1}{6}$ th of her age. What was her son's age 3 year ago?

- A. 4 yr
- B. 2 yr
- C. 3 yr
- D. 5 yr

**Answer – B. 2 yr**

**Explanation:**

Let us assume that Sravan's age 8 year ago = x

Present age = x + 8

$$x + 8 = \frac{9}{7}x$$

$$7(x + 8) = 9x$$

$$x = 28; 28 + 8 = 36$$

$$\text{Son's age} = \frac{1}{6} * 36 = 6$$

$$\text{Son's age 4 year ago} = 6 - 4 = 2$$

19. The respective ratio between the present age of Mani and Dheeraj is x : 42. Mani is 8 years younger than Murali. Murali's age after 8 years will be 33 years. The difference between Dheeraj's and Mani's age is same as the present age of Murali. What is the value of x?

- A. 18
- B. 10
- C. 16
- D. 17

**Answer – D. 17**

**Explanation:**

Murali's age after 8 years = 33 years

Murali's present age = 33 – 8 = 25 years

Mani's present age = 25 – 8 = 17 years

Dheeraj's present age = 17 + 25 = 42 years

Ratio between Mani and Dheeraj = 17: 42

$$X = 17$$

20. Revanth's present age is three times his son's present age and  $\frac{4}{5}$ th of his father's present age. The average of the present ages of all of them is 62 years. What is the difference between the Revanth's son's present age and Revanth's father's present age?

## Accenture Aptitude Questions and Answers with Explanation

- A. 64 years
- B. 69 years
- C. 66 years
- D. 62 years

**Answer – C. 66 years**

**Explanation:**

Present age of Revanth is =  $4/5x$

Present age of Revanth's father is =  $4/15x$

Ratio = 15: 12 : 4

Difference between the Revanth's son's present age and Revanth's father's present age =

$62/31 * 3(15 - 4).$

=  $2*3*11 = 66$  years.

21. **36% of 945 – 26% of 765 + 17.7 =?**

- A. 167
- B. 187
- C. 159
- D. 143

**Answer – C. 159**

**Explanation:**

$340.2 - 198.9 = 141.3 + 17.7 = 159$

22.  **$\sqrt{(456 \div 12 + 142 - 11)} = ?$**

- A. 11
- B. 169
- C. 23
- D. 13

**Answer – D. 13**

**Explanation:**

$38 + 142 - 11 = 169 = 13 * 13$

23.  **$1(1/5)$  of  $1(1/2)$  of ? = 216**

- A. 100
- B. 125
- C. 140
- D. 120

## Accenture Aptitude Questions and Answers with Explanation

**Answer – D. 120**

**Explanation:**

$$6/5 \times 3/2 \times x = 216$$

$$X = 216 \times 2 \times 5/6 \times 3 = 2160/18 = 120$$

**24. 15 32 60 122 240 ?**

A. 488

B. 482

C. 364

D. 362

**Answer – B. 482**

**Explanation:**

$$15 \times 2 + 2 = 32$$

$$32 \times 2 - 4 = 60$$

$$60 \times 2 + 2 = 122; 122 \times 2 - 4 = 240$$

$$\text{Then } 240 \times 2 + 2 = 482$$

**25. 18 10 8 9 11.5 ?**

A. 10.75

B. 18.75

C. 19.75

D. 14.75

**Answer – D. 14.75**

**Explanation:**

$$18 / 2 + 1 = 10$$

$$10 / 2 + 3 = 8$$

$$8 / 2 + 5 = 9$$

$$9 / 2 + 7 = 11.5$$

$$11.5 / 2 + 9 = 14.75$$



## Reasoning Test Placement Papers

1. Class A has a higher enrollment than Class B. Class C has a lower enrollment than Class B. Class A has a lower enrollment than Class C.

If the first two statements are true, the third statement is

- A. true
- B. false
- C. uncertain
- D. None

**Answer: Option B**

2. All animals have

- A. Eyes
- B. Four legs
- C. Horns
- D. Instincts

**Answer: Option D**

3. We, at Comfort Stationers, have always been striving to provide stationery items that would make your work more enjoyable and less strenuous. Our latest innovations are a smooth-flow pen and gradual-friction paper. A combination of these two reduces strain on your fingers and allows faster writing the causes lesser fatigue. Therefore, replacement of your pen and paper with our innovative products reduces cost of clerical jobs.

Which of the following, if true, would weaken the conclusion drawn in the above argument?

- A. Those who are already using the above new products report greater difficulty in transition from new products to regular ones than from the regular ones to the new ones.
- B. The cost of manufacturing these new products is not more than the cost of manufacturing the regular ones and the new products last longer than the regular ones.
- C. The number of offices using the new products is increasing month by month.
- D. These products need to be purchased in huge lots and need to be stored in special conditions. The cost of procurement and storage is quite high.

**Answer: Option D**

**Solution:**

The passage talks about the advantages in writing by using the new kind of pen and paper and arrives at a conclusion about the cost of clerical job. We have to show that the new products do not lead to decrease in cost of clerical job.

None of the choice (a), (c) and (e) has anything about the cost. Hence, none of them weakens the conclusion.

Choice (b) states that the new products can be manufactured and they also last longer. This information strengthens the conclusion.

According to choice (d) the procurement and storage costs are very high. This casts a doubt on the conclusion that the cost of clerical job can be decreased by using these new products. Hence, (d) weakens the conclusion.

4. Choose the correct alternative that will continue the same pattern and fill in the blank spaces:

2, 3, 5, 7, 11, (....), 17

A. 12

B. 13

C. 14

D. 15

**Answer: Option B**

**Solution:**

Clearly, the given series consists of prime numbers starting from 2. The prime number after 11 is 13. So, 13 is the missing number

5. (A) The Archaeological Survey of India has submitted a report for the Supreme Court that there is no evidence to prove that the Rama Sethu is man made.

(B) Mt. Kailash which is a natural formation, is considered holy and is revered by Hindus and Buddhists the world over.

A. if statement (A) is the cause and statement (B) is its effect.

B. if statement (B) is the cause and statement (A) is its effect.

C. if both the statements (A) and (B) are independent causes.

D. if both the statements (A) and (B) are effects of independent causes.

**Answer: Option D**

**Solution:**

The cause for ASI's report and the cause for Hindus and Buddhists considering Kailash as holy mountain are different.

6. Study the following information carefully and answer the given questions:

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement:

Input: 39 121 48 18 76 112 14 45 63 96

Step I: 14 39 121 48 18 76 112 45 63 96

Step II: 14 39 48 18 76 112 45 63 96 121

Step III: 14 18 39 48 76 112 45 63 96 121

Step IV: 14 18 39 48 76 45 63 96 112 121

Step V: 14 18 39 45 48 76 63 96 112 121

Step VI: 14 18 39 45 48 63 76 96 112 121

This is the final arrangement and step VI is the last step for this input.

How many steps will be required for getting the final output for the following input?

Input: 101 85 66 49 73 39 142 25 115 74

A.5

B.6

C.7

D.8

**Answer: Option D**

**Solution:**

Step I: The smallest number becomes first and the remaining numbers shift one position rightward.

Step II: The largest number among given numbers becomes last and the remaining numbers shift one position leftward.

The steps are repeated alternately till all the numbers get arranged in ascending order and that will be that last step for that particular input.

7. Statement:

The principal instructed all the teachers to be careful in class because some students may disturb other students.

Assumptions:

I. The teachers may handle the situation properly and they may restrict the naughty students.

II. The students will welcome the decision of the Principal.

A. If only assumption I is implicit

B. If only assumption II is implicit

C. If either I or II is implicit

D. If neither I nor II is implicit

**Answer: Option A**

**Solution:**

I is implicit; that is why the principal instructed the teachers to carry the responsibility. II is not implicit. The mischievous section may not welcome the decision.

8. Labourer is related to wages in the same way as an entrepreneur is related to?

A. Loan

B. Interest

C. Taxes

D. Profit

**Answer: Option D**

**Solution:**

First earns in the form of a second.

9. Event (A): Company X is opening an office in city Y for marketing the company's products.

Event (B): Company X has chalked out an expansion plan, involving raising production capacity at its existing plants.

A. If 'A' is the effect and 'B' is its immediate and principle cause.

B. If 'B' is the effect and 'A' is its immediate and principle cause.

C. If 'A' is the effect but 'B' is not its immediate and principle cause.

D. If 'B' is the effect but 'A' is not its immediate and principle cause.

**Answer: Option C**

**Solution:**

Events (A) and (B) are related events and chronologically (B) occurs before (A) and because of as they are planning to increase capacity, they have to make a plan to sell their products also so they open new offices for marketing those products.

But opening an office in a particular city, requires other events such as market survey etc. It is not the immediate and principle cause.

10. Statement:

Cutting down of forests is a threat to the wild life. Most of the species of animals are on the verge of extinction.

Courses of Action:

I. The species of animals, which are on the verge of extinction, must be protected by creating wild life sanctuaries which contain flora that defines the native habitat of the endangered animals.

II. To the maximum extent possible we should stop deforestation.

III. Growing urban forests to compensate for deforestation.

A. Only II follows

B. Only III follows

C. Only I and II follow

D. Only I and

follows **Answer:**

**Option C**

**Solution:**

Here the problem is extinction of various species of animals, so providing them their native habitat is the proper solution for the problem.

II is a proper course of action, as stopping deforestation can solve the problem to some extent.

III is not a proper course of action as urban forest cannot be the habitat for the wild animals.

From the first two statements, we know that of the three classes, Class A has the highest enrollment, so the third statement must be false.

11. 522 1235 2661 4800 7652 11217 ?

A. 15495



B. 16208

C. 14782

D. 16921

**Answer: Option A**

## English Placement Papers

1. He brought him\_\_\_\_\_with great difficulty.

A. about

B. in

C. up

D. over

**Answer: Option C**

2. VITUPERATE

A. abuse

B. rebuke

C. praise

D. retort

**Answer: Option C**

3. The young, thin boy surprised his wrestling opponent with his\_\_\_\_\_strength.

A. fraudulent

B. wiry

C. frolicsome

D. pretentious

**Answer: Option B**

4. An extremely deep crack or opening in the ground

A. Chasm

B. Aperture

C. Ditch

D. Pit

**Answer: Option A**

5. Modern

A. ity

B. ty

C. ize

D. ite

**Answer: Option A**

6. He took to (a) / reading Times (b) / for better knowledge (c) / of the facts (d) / No error (e)

- A. he took to
- B. reading times
- C. for better knowledge
- D. of the facts

**Answer: Option B**

7. Likelihood

- A. liken
- B. likely
- C. like
- D. likeable

**Answer: Option C**

8. With Justine's \_\_\_\_\_ nature and passion for art, she would make an excellent tour guide for the museum.

- A. volatile
- B. congenial
- C. servile
- D. fledgling

**Answer: Option B**

9. The train had left.

A. past perfect

B. past continuous

C. past future

D. simple present

**Answer: Option A**

10. You will have finished this work by tomorrow.

A. This work will be finished by tomorrow.

B. This work will finished tomorrow.

**C. This work will have been finished by tomorrow.**

D. This work will have been finished tomorrow.

**Answer: Option C**

11. He may be innocent. I do not

know. a) I doubt -----

b) I do not -----

c) That he is -----

A. Only A

B. Only B

C. Only C

D. A & B

**Answer: Option B**

12. CONVIVAL

A. prodigal

B. serious

C. disloyal

D. hostile

E. friendly

**Answer: Option E**

13. If he is averse \_\_\_\_\_ recommending my name, he should not hesitate to admit it.

A. about

B. for

C. to

D. against

**Answer: Option C**

14. EPITOMIZE

A. disappoint

B. distend

C. exemplify

D. generate

**Answer: Option C**

15. According to pirate lore, a terrible \_\_\_\_\_ would follow whoever opened the treasure chest.

A. precursor

B. precession

C. rendition

D. insurgence

E. malediction

Answer: Option E

# Aptitude Test

1. Express a speed of 36 kmph in meters per second?

A. 10 mps

B. 12 mps

C. 14 mps

D. 17 mps

**Answer:** Option A

2. Express 25 mps in kmph?

A. 15 kmph

B. 99 kmph

C. 90 kmph

D. None

**Answer:** Option C

3. The speed of a train is 90 kmph. What is the distance covered by it in 10 minutes?

A. 15 kmph

B. 12 kmph

C. 10 kmph

D. 5 kmph

**Answer:** Option A

4. A car covers a distance of 624 km in  $6\frac{1}{2}$  hours. Find its speed?

A. 104 kmph



B. 140 kmph

C. 104 mph

D. 10.4 kmph

**Answer:** Option A

5. A and B complete a work in 6 days. A alone can do it in 10 days. If both together can do the work in how many days?

A. 3.75 days

B. 4 days

C. 5 days

D. 6 days

**Answer:** Option A

6. A can do a piece of work in 4 days. B can do it in 5 days. With the assistance of C they completed the work in 2 days. Find in how many days can C alone do it?

A. 10 days

B. 20 days

C. 5 days

D. 4 days

**Answer:** Option B

7. A, B and C can do a piece of work in 24, 30 and 40 days respectively. They start the work together but C leaves 4 days before the completion of the work. In how many days is the work done?

A. 15 days

B. 14 days

C. 13 days

D. 11 days

**Answer:** Option D

8. 5 men and 12 boys finish a piece of work in 4 days, 7 men and 6 boys do it in 5 days. The ratio between the efficiencies of a man and boy is?

A. 1:2

B. 2:1

C. 2:3

D. 6:5

**Answer:** Option D

9. A and B can finish a work in 16 days while A alone can do the same work in 24 days. In how many days B alone will complete the work?

A. 56

B. 48

C. 36

D. 58

**Answer:** Option B

10. Some persons can do a piece of work in 12 days. Two times the number of these people will do half of that work in?

A. 3 days

B. 4 days

C. 6 days

D. 12 days

**Answer:** Option A

11. What number has a 5:1 ratio to the number 10?

A. 42

B. 50

C. 55

D. 62

**Answer:** Option B

12. Two same glasses are respectively  $\frac{1}{4}$ th  $\frac{1}{5}$ th full of milk. They are then filled with water and the contents mixed in a tumbler. The ratio of milk and water in the tumbler is?

A. 3:8

B. 9:31

C. 8:21

D. 10:27

**Answer:** Option B

13. A and B entered into a partnership investing Rs.25000 and Rs.30000 respectively. After 4 months C also joined the business with an investment of Rs.35000. What is the share of C in an annual profit of Rs.47000?

A. Rs.18000

B. Rs.15000

C. Rs.17000

D. Rs.14000

**Answer:** Option D

14. In how many years does a sum of Rs. 5000 yield a simple interest of Rs. 16500 at 15% p.a.?

A. 22

B. 24

C. 25

D. 23

**Answer:** Option A

15. The radius of a circle is increased by 1%. Find how much % does its area increase?

A. 1.01%

B. 5.01%

C. 3.01%

D. 2.01%

**Answer:** Option D

1. He brought him \_\_\_\_\_ with great difficulty.

- A. about
- B. in
- C. up
- D. over

Answer: Option C

2. VITUPERATE

- A. abuse
- B. rebuke
- C. praise
- D. retort

Answer: Option C

3. The young, thin boy surprised his wrestling opponent with his \_\_\_\_\_ strength.

- A. fraudulent
- B. wiry
- C. frolicsome
- D. pretentious

Answer: Option

B

4. An extremely deep crack or opening in the ground

- A. Chasm
- B. Aperture
- C. Ditch
- D. Pit

Answer: Option A

5. Modern

- A. ity
- B. ty
- C. ize
- D. ite

Answer: Option A

6. He took to (a) / reading Times (b) / for better knowledge (c) / of the facts (d) /

No error (e)

- A. he took to
- B. reading times
- C. for better knowledge
- D. of the facts

Answer: Option B

7. Likelihood

A. liken

B. likely

C. like

D. likeable

Answer: Option

C

8. With Justine's \_\_\_\_\_ nature and passion for art, she would make an excellent

tour guide for the museum.

A. volatile

B. congenial

C. servile

D. fledgling

Answer: Option B

9. The train had left.

A. past perfect

B. past continuous

C. past future

D. simple

presentAnswer:

Option A

10. You will have finished this work by tomorrow.

A. This work will be finished by tomorrow.

B. This work will finished tomorrow.

C. This work will have been finished by tomorrow.

D. This work will have been finished

tomorrow. Answer: Option C

11. He may be innocent. I do not

know. a) I doubt -----

b) I do not -----

c) That he is -----

A. Only A

B. Only B

C. Only C

D. A & B

Answer: Option B

12. CONVIVAL

A. prodigal



- B. serious
- C. disloyal
- D. hostile
- E. friendly

Answer: Option

E

13. If he is averse \_\_\_\_\_ recommending my name, he should not hesitate to admit it.

- A. about
- B. for
- C. to
- D. against

Answer: Option C

14. EPITOMIZE

- A. disappoint
- B. distend
- C. exemplify
- D. generate

Answer: Option

C

15. According to pirate lore, a terrible \_\_\_\_\_ would follow whoever opened the treasure chest.

- A. precursor
- B. precession
- C. rendition
- D. insurgence
- E. malediction

Answer: Option

E

## Accenture Technical Section Questions & Answers

1) Let A be a square matrix of size  $n \times n$ . Consider the following program. What is the expected output?

```
C = 100
for i = 1 to n do
  for j = 1 to n do
  {
  Temp = A[i][j] + C
  A[i][j] = A[j][i]
  A[j][i] = Temp - C
  }
for i = 1 to n do
  for j = 1 to n do
  Output(A[i][j]);
```

- Transpose of matrix A
- Adding 100 to the upper diagonal elements and subtracting 100 from diagonal elements of A
- The matrix A itself**
- None of these

2) Consider a hash table with 9 slots. The hash function is  $h(k) = k \bmod 9$ . The collisions are resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10. The maximum, minimum, and average chain lengths in the hash table, respectively, are

- 3, 0 and 2
- 4, 0, 1
- 3, 0, and 1**
- 3, 3, and 3

3) Suppose implementation supports an instruction REVERSE, which reverses the order of elements on the stack, in addition to the PUSH and POP

## Accenture Technical Section Questions & Answers

instructions. Which one of the following statements is TRUE with respect to this modified stack?

1. A queue cannot be implemented using this stack.
- 2. A queue can be implemented where ENQUEUE takes a sequence of three instructions and DEQUEUE takes a single instruction.**
3. A queue can be implemented where both ENQUEUE and DEQUEUE take a single instruction each.
4. A queue can be implemented where ENQUEUE takes a single instruction and DEQUEUE takes a sequence of two instructions.

4) A priority queue is implemented as a Max-Heap. Initially, it has 5 elements. The level-order traversal of the heap is: 10, 8, 5, 3, 2. Two new elements 1 and 7 are inserted into the heap in that order. The level-order traversal of the heap after the insertion of the elements is:

1. 10, 8, 7, 2, 3, 1, 5
2. 10, 8, 7, 1, 2, 3, 5
- 3. 10, 8, 7, 3, 2, 1, 5**
4. 10, 8, 7, 5, 3, 2, 1

5) State True or False.

i) Binary search is used for searching in a sorted array.

ii) The time complexity of binary search is  $O(\log n)$ .

1. False, True
- 2. True, True**
3. False, False
4. True, False

## Accenture Technical Section Questions & Answers

6) A binary tree that has  $n$  leaf nodes. The number of nodes of degree 2 in this tree is ?

1.  $n$
- 2.  $n - 1$**
3.  $\log_2 n$
4.  $n^2$

7) Which of the following is true about the characteristics of abstract data types? <https://www.freshersnow.com/previous-year-question-papers/>

- i) It exports a type.
- ii) It exports a set of operations

1. False, False
- 2. True, True**
3. True, False
4. False, True

8) A machine took 200 sec to sort 200 names, using bubble sort. In 800 sec, it can approximately sort ?

1. 800 names
- 2. 400 names**
3. 750 names
4. 800 names

## Accenture Technical Section Questions & Answers

9) The average search time of hashing with linear probing will be less if the load factor ?

1. equals one
- 2. is far less than one**
3. is far greater than one
4. none of these

10) The initial configuration of the queue is a,b,c,d (a is the front end). To get the configuration d,c,b,a one needs a minimum of ?

1. 3 deletions and 4 additions
- 2. 3 deletions and 3 additions**
3. 3 additions and 2 deletions
4. 2 deletions and 3 additions

11) State true or false.

- i) The degree of root node is always zero.
- ii) Nodes that are not root and not leaf are called as internal nodes.

1. False, False
2. True, True
- 3. False, True**
4. True, False

12) The number of binary trees with 3 nodes which when traversed in post order gives the sequence A,B,C is ?

1. 9
2. 3

## Accenture Technical Section Questions & Answers

3. 7

4. 5

13) Which of the following is not the internal sort?

1. Insertion Sort
2. **Merge Sort**
3. Heap Sort
4. Bubble Sort

14) Consider the tree arcs of a BFS traversal from a source node W in an unweighted, connected, undirected graph. The tree T formed by the tree arcs is a data structure for computing.

1. **the shortest path from W to every vertex in the graph.**
2. the shortest paths from W to only those nodes that are leaves of T.
3. the longest path in the graph
4. the shortest path between every pair of vertices.

15) The number of swapping needed to sort numbers 8,22,7,9,31,19,5,13 in ascending order using bubble sort is ?

1. 12
2. 11
3. **14**
4. 13

16) The postfix expression for  $* + a b - c d$  is?

1.  $ab cd + - *$
2.  $ab + cd * -$
3.  $ab + - cd *$

## Accenture Technical Section Questions & Answers

### 4. $ab + cd - *$

17) Given two sorted lists of size  $m$  and  $n$  respectively. The number of comparisons needed in the worst case by the merge sort algorithm will be?

1.  $\min(m,n)$
2.  $mn$
3.  $\max(m,n)$
4.  **$m+n-1$**

18) State True or False.

i) Network is a graph that has weights or costs associated with it.

ii) An undirected graph which contains no cycles is called a forest.

iii) A graph is said to be complete if there is no edge between every pair of vertices.

1. True, True, True
2. True, False, True
3. **True, True, False**
4. False, True, True

19) Consider the following pseudo code. What is the total number of multiplications to be performed?

```
D = 2
for i = 1 to n do
  for j = i to n do
```



## Accenture Technical Section Questions & Answers

for k = j + 1 to n do  
D = D \* 3

1. Half of the product of the 3 consecutive integers.
2. One-third of the product of the 3 consecutive integers.
- 3. One-sixth of the product of the 3 consecutive integers.**
4. No

20) If the sequence of operations - push(1), push(2), pop, push(1), push(2), pop, pop, pop, push(2), pop are performed on a stack, the sequence of popped out values are ?

1. 2, 1, 2, 2, 1
2. 2, 1, 2, 2, 2
3. 2, 2, 1, 2, 2
- 4. 2, 2, 1, 1, 2**

1. Express a speed of 36 kmph in meters per second?

- A. 10 mps
- B. 12 mps
- C. 14 mps
- D. 17 mps

**Answer:** Option A

2. Express 25 mps in kmph?

- A. 15 kmph
- B. 99 kmph
- C. 90 kmph
- D. None

**Answer:** Option C

3. The speed of a train is 90 kmph. What is the distance covered by it in 10minutes?

- A. 15 kmph
- B. 12 kmph
- C. 10 kmph
- D. 5 kmph

**Answer:** Option A

4. A car covers a distance of 624 km in 6 ½ hours. Find its speed?

- A. 104 kmph

- B. 140 kmph
- C. 104 mph
- D. 10.4 kmph

**Answer:** Option A

5. A and B complete a work in 6 days. A alone can do it in 10 days. If both together can do the work in how many days?

- A. 3.75 days
- B. 4 days
- C. 5 days
- D. 6 days

**Answer:** Option A

6. A can do a piece of work in 4 days. B can do it in 5 days. With the assistance of C they completed the work in 2 days. Find in how many days can C alone do it?

- A. 10 days
- B. 20 days
- C. 5 days
- D. 4 days

**Answer:** Option B

7. A, B and C can do a piece of work in 24, 30 and 40 days respectively. They start the work together but C leaves 4 days before the completion of the work. In how many days is the work done?

- A. 15 days
- B. 14 days

C. 13 days

D. 11 days

**Answer:** Option D

8. 5 men and 12 boys finish a piece of work in 4 days, 7 men and 6 boys do it in 5 days. The ratio between the efficiencies of a man and boy is?

A. 1:2

B. 2:1

C. 2:3

D. 6:5

**Answer:** Option D

9. A and B can finish a work in 16 days while A alone can do the same work in 24 days. In how many days B alone will complete the work?

A. 56

B. 48

C. 36

D. 58

**Answer:** Option B

10. Some persons can do a piece of work in 12 days. Two times the number of these people will do half of that work in?

A. 3 days

B. 4 days

C. 6 days

D. 12 days

**Answer:** Option A

11. What number has a 5:1 ratio to the number 10?

A. 42

B. 50

C. 55

D. 62

**Answer:** Option B

12. Two same glasses are respectively  $\frac{1}{4}$ th  $\frac{1}{5}$ th full of milk. They are then filled with water and the contents mixed in a tumbler. The ratio of milk and water in the tumbler is?

A. 3:8

B. 9:31

C. 8:21

D. 10:27

**Answer:** Option B

13. A and B entered into a partnership investing Rs.25000 and Rs.30000 respectively. After 4 months C also joined the business with an investment of Rs.35000. What is the share of C in an annual profit of Rs.47000?

A. Rs.18000

B. Rs.15000

C. Rs.17000

D. Rs.14000

**Answer:** Option D

14. In how many years does a sum of Rs. 5000 yield a simple interest of Rs. 16500 at 15% p.a.?

A. 22

B. 24

C. 25

D. 23

**Answer:** Option A

15. The radius of a circle is increased by 1%. Find how much % does its area increase?

A. 1.01%

B. 5.01%

C. 3.01%

D. 2.01%

**Answer:** Option D

1. Class A has a higher enrollment than Class B. Class C has a lower enrollment than Class B. Class A has a lower enrollment than Class C.

If the first two statements are true, the third statement is

- A. true
- B. false
- C. uncertain
- D. None

Answer: Option B

2. All animals have

- A. Eyes
- B. Four legs
- C. Horns
- D. Instincts

Answer: Option D

3. We, at Comfort Stationers, have always been striving to provide stationery items that would make your work more enjoyable and less strenuous. Our latest innovations are a smooth-flow pen and gradual-friction paper. A combination of these two reduces strain on your fingers and allows faster writing the causes lesser fatigue. Therefore, replacement of your pen and paper with our innovative products reduces cost of clerical jobs.

Which of the following, if true, would weaken the conclusion drawn in the above argument?

- A. Those who are already using the above new products report greater difficulty in transition from new products to regular ones than from the regular ones to the new ones.
- B. The cost of manufacturing these new products is not more than the cost of manufacturing the regular ones and the new products last longer than the regular ones.
- C. The number of offices using the new products is increasing month by month.
- D. These products need to be purchased in huge lots and need to be stored in special conditions. The cost of procurement and storage is quite high.

Answer: Option D

Solution:

The passage talks about the advantages in writing by using the new kind of pen and paper and arrives at a conclusion about the cost of clerical job. We have to show that the new products do not lead to decrease in cost of clerical job.



None of the choice (a), (c) and (e) has anything about the cost. Hence, none of them weakens the conclusion.

Choice (b) states that the new products can be manufactured and they also last longer. This information strengthens the conclusion.

According to choice (d) the procurement and storage costs are very high. This casts a doubt on the conclusion that the cost of clerical job can be decreased by using these new products. Hence, (d) weakens the conclusion.

4. Choose the correct alternative that will continue the same pattern and fill in the blank spaces:

2, 3, 5, 7, 11, (....), 17

- A. 12
- B. 13
- C. 14
- D. 15

Answer: Option B

Solution:

Clearly, the given series consists of prime numbers starting from 2. The prime number after 11 is 13. So, 13 is the missing number

5. (A) The Archaeological Survey of India has submitted a report for the Supreme Court that there is no evidence to prove that the Rama Sethu is man made.

(B) Mr. Kailash which is a natural formation, is considered holy and is received by Hindus and Buddhists the world over.

- A. if statement (A) is the cause and statement (B) is its effect.
- B. if statement (B) is the cause and statement (A) is its effect.
- C. if both the statements (A) and (B) are independent causes.
- D. if both the statements (A) and (B) are effects of independent causes.

Answer: Option D

Solution:

The cause for ASIs report and the cause for Hindus and Buddhists considering Kailash as holy mountain are different.

6. Study the following information carefully and answer the given questions:

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement:

Input: 39 121 48 18 76 112 14 45 63 96

Step I: 14 39 121 48 18 76 112 45 63 96

Step II: 14 39 48 18 76 112 45 63 96 121

Step III: 14 18 39 48 76 112 45 63 96 121

Step IV: 14 18 39 48 76 45 63 96 112 121

Step V: 14 18 39 45 48 76 63 96 112 121

Step VI: 14 18 39 45 48 63 76 96 112 121

This is the final arrangement and step VI is the last step for this input.

How many steps will be required for getting the final output for the following input?

Input: 101 85 66 49 73 39 142 25 115 74

- A. 5
- B. 6
- C. 7
- D. 8

Answer: Option D

Solution:

Step I: The smallest number becomes first and the remaining numbers shift one position rightward.

Step II: The largest number among given numbers becomes last and the remaining numbers shift one position leftward.

The steps are repeated alternately till all the numbers get arranged in ascending order and that will be that last step for that particular input.

7. Statement:

The principal instructed all the teachers to be careful in class because some students may disturb other students.

Assumptions:

- I. The teachers may handle the situation properly and they may restrict the naughty students.
- II. The students will welcome the decision of the Principal.

- A. If only assumption I is implicit
- B. If only assumption II is implicit
- C. If either I or II is implicit
- D. If neither I nor II is implicit

Answer: Option

A Solution:

I is implicit; that is why the principal instructed the teachers to carry the responsibility. II is not implicit. The mischievous section may not welcome the decision.

8. Labourer is related to wages in the same way as an entrepreneur is related to?

- A. Loan
- B. Interest
- C. Taxes
- D. Profit

Answer: Option

D Solution:

First earns in the form of a second.

9. Event (A): Company X is opening an office in city Y for marketing the company's products.

Event (B): Company X has chalked out an expansion plan, involving raising production capacity at its existing plants.

- A. If 'A' is the effect and 'B' is its immediate and principle cause.
- B. If 'B' is the effect and 'A' is its immediate and principle cause.
- C. If 'A' is the effect but 'B' is not its immediate and principle cause.
- D. If 'B' is the effect but 'A' is not its immediate and principle cause.

Answer: Option C

Solution:

Events (A) and (B) are related events and chronologically (B) occurs before (A) and because of as they are planning to increase capacity, they have to make a plan to sell their products also so they open new offices for marketing those products.

But opening an office in a particular city, requires other events such as market survey etc. It is not the immediate and principle cause.

10. Statement:

Cutting down of forests is a threat to the wild life. Most of the species of animals are on the verge of extinction.

Courses of Action:

I. The species of animals, which are on the verge of extinction, must be protected by creating wild life sanctuaries which contain flora that defines the native habitat of the endangered animals.

II. To the maximum extent possible we should stop deforestation.

III. Growing urban forests to compensate for deforestation.

A. Only II follows

B. Only III follows

C. Only I and II follow

D. Only I and

follows

Answer:

Option C Solution:

Here the problem is extinction of various species of animals, so providing them their native habitat is the proper solution for the problem.

II is a proper course of action, as stopping deforestation can solve the problem to some extent.

III is not a proper course of action as urban forest cannot be the habitat for the wild animals.

From the first two statements, we know that of the three classes, Class A has the highest enrollment, so the third statement must be false.

11. 522 1235 2661 4800 7652 11217 ?

A. 15495

B. 16208

C. 14782

D. 16921

Answer: Option A

## Accenture Technical Section Questions & Answers

1) Let A be a square matrix of size  $n \times n$ . Consider the following program. What is the expected output?

```
C = 100
for i = 1 to n do
  for j = 1 to n do
  {
  Temp = A[i][j] + C
  A[i][j] = A[j][i]
  A[j][i] = Temp - C
  }
for i = 1 to n do
  for j = 1 to n do
  Output(A[i][j]);
```

- Transpose of matrix A
- Adding 100 to the upper diagonal elements and subtracting 100 from diagonal elements of A
- The matrix A itself**
- None of these

2) Consider a hash table with 9 slots. The hash function is  $h(k) = k \bmod 9$ . The collisions are resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10. The maximum, minimum, and average chain lengths in the hash table, respectively, are

- 3, 0 and 2
- 4, 0, 1
- 3, 0, and 1**
- 3, 3, and 3

3) Suppose implementation supports an instruction REVERSE, which reverses the order of elements on the stack, in addition to the PUSH and POP



## Accenture Technical Section Questions & Answers

instructions. Which one of the following statements is TRUE with respect to this modified stack?

1. A queue cannot be implemented using this stack.
- 2. A queue can be implemented where ENQUEUE takes a sequence of three instructions and DEQUEUE takes a single instruction.**
3. A queue can be implemented where both ENQUEUE and DEQUEUE take a single instruction each.
4. A queue can be implemented where ENQUEUE takes a single instruction and DEQUEUE takes a sequence of two instructions.

4) A priority queue is implemented as a Max-Heap. Initially, it has 5 elements. The level-order traversal of the heap is: 10, 8, 5, 3, 2. Two new elements 1 and 7 are inserted into the heap in that order. The level-order traversal of the heap after the insertion of the elements is:

1. 10, 8, 7, 2, 3, 1, 5
2. 10, 8, 7, 1, 2, 3, 5
- 3. 10, 8, 7, 3, 2, 1, 5**
4. 10, 8, 7, 5, 3, 2, 1

5) State True or False.

i) Binary search is used for searching in a sorted array.

ii) The time complexity of binary search is  $O(\log n)$ .

1. False, True
- 2. True, True**
3. False, False
4. True, False

## Accenture Technical Section Questions & Answers

6) A binary tree that has  $n$  leaf nodes. The number of nodes of degree 2 in this tree is ?

1.  $n$
- 2.  $n - 1$**
3.  $\log_2 n$
4.  $n^2$

7) Which of the following is true about the characteristics of abstract data types? <https://www.freshersnow.com/previous-year-question-papers/>

- i) It exports a type.
- ii) It exports a set of operations

1. False, False
- 2. True, True**
3. True, False
4. False, True

8) A machine took 200 sec to sort 200 names, using bubble sort. In 800 sec, it can approximately sort ?

1. 800 names
- 2. 400 names**
3. 750 names
4. 800 names

## Accenture Technical Section Questions & Answers

9) The average search time of hashing with linear probing will be less if the load factor ?

1. equals one
- 2. is far less than one**
3. is far greater than one
4. none of these

10) The initial configuration of the queue is a,b,c,d (a is the front end). To get the configuration d,c,b,a one needs a minimum of ?

1. 3 deletions and 4 additions
- 2. 3 deletions and 3 additions**
3. 3 additions and 2 deletions
4. 2 deletions and 3 additions

11) State true or false.

- i) The degree of root node is always zero.
- ii) Nodes that are not root and not leaf are called as internal nodes.

1. False, False
2. True, True
- 3. False, True**
4. True, False

12) The number of binary trees with 3 nodes which when traversed in post order gives the sequence A,B,C is ?

1. 9
2. 3

## Accenture Technical Section Questions & Answers

3. 7

4. 5

13) Which of the following is not the internal sort?

1. Insertion Sort
2. **Merge Sort**
3. Heap Sort
4. Bubble Sort

14) Consider the tree arcs of a BFS traversal from a source node  $W$  in an unweighted, connected, undirected graph. The tree  $T$  formed by the tree arcs is a data structure for computing.

1. **the shortest path from  $W$  to every vertex in the graph.**
2. the shortest paths from  $W$  to only those nodes that are leaves of  $T$ .
3. the longest path in the graph
4. the shortest path between every pair of vertices.

15) The number of swapping needed to sort numbers 8,22,7,9,31,19,5,13 in ascending order using bubble sort is ?

1. 12
2. 11
3. **14**
4. 13

16) The postfix expression for  $* + a b - c d$  is?

1.  $ab cd + - *$
2.  $ab + cd * -$
3.  $ab + - cd *$

## Accenture Technical Section Questions & Answers

4.  $ab + cd - *$

17) Given two sorted lists of size  $m$  and  $n$  respectively. The number of comparisons needed in the worst case by the merge sort algorithm will be?

1.  $\min(m,n)$
2.  $mn$
3.  $\max(m,n)$
4.  **$m+n-1$**

18) State True or False.

i) Network is a graph that has weights or costs associated with it.

ii) An undirected graph which contains no cycles is called a forest.

iii) A graph is said to be complete if there is no edge between every pair of vertices.

1. True, True, True
2. True, False, True
3. **True, True, False**
4. False, True, True

19) Consider the following pseudo code. What is the total number of multiplications to be performed?

```
D = 2
for i = 1 to n do
  for j = i to n do
```

## Accenture Technical Section Questions & Answers

for k = j + 1 to n do  
D = D \* 3

1. Half of the product of the 3 consecutive integers.
2. One-third of the product of the 3 consecutive integers.
- 3. One-sixth of the product of the 3 consecutive integers.**
4. No

20) If the sequence of operations - push(1), push(2), pop, push(1), push(2), pop, pop, pop, push(2), pop are performed on a stack, the sequence of popped out values are ?

1. 2, 1, 2, 2, 1
2. 2, 1, 2, 2, 2
3. 2, 2, 1, 2, 2
- 4. 2, 2, 1, 1, 2**

One of Accenture drive concluded on **24-August-2021** with the second slot happening on for the students from **1:30 PM to 3:00 PM**. This document details the **Slot Analysis** as well as **Answers to Questions** that students recollected post the test.

#### Disclaimer:

1. The questions showcased in this document have been recreated through memory, thanks to test-takers who recalled the questions post their test.
2. The questions repetition between the slots is expected to be very miniscule.
3. Please use this document as an indicative preparation tool, rather than exact replica of the questions that appeared or can appear in the Accenture Online Test.

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## Accenture Roles and Packages

This year Accenture recruitment for 2022 pass-outs has come up with two roles with exciting packages. They are as follows.

- Associate Software Engineer (4.5 LPA)
- Advanced Associate Software Engineer (6.5 LPA)



## Accenture Recruitment Process



## Accenture Online Test Pattern

Round	Round Name	#Qs	Sections Name	#Qs in Sections	Duration (In Mins)
1	Cognitive and Technical Assessment	90	English Ability	17	90
			Numerical Ability	17	
			Analytical Ability	16	
			Pseudocode	18	
			Common Applications and MS Office	12	
			Networking and Security	10	
2	Coding	2	-	-	45

## Accenture Online Test Assessment Platform

Assessment Platform	Intra - sectional Navigation	Sectional Navigation Marking Scheme	Marking Scheme
AON-CoCubes/Wheebox	Allowed	Allowed	No Negative Marking

## Accenture Online Test Syllabus

Section	Topic
English Ability	<ul style="list-style-type: none"> <li>• Reading Comprehension</li> <li>• Articles</li> <li>• Prepositions</li> <li>• Sentence Correction,</li> <li>• Speech and Voice</li> </ul>





	<ul style="list-style-type: none"> <li>• Tenses, Synonyms</li> <li>• Antonyms, Spellings</li> <li>• Idioms and Phrases</li> </ul>
Numerical Ability	<ul style="list-style-type: none"> <li>• Time and work</li> <li>• Time Speed and Distance</li> <li>• Algebra, Equations</li> <li>• Progressions</li> <li>• Profit and Loss</li> <li>• Ratio</li> <li>• Averages</li> <li>• Geometry</li> <li>• Data Interpretation</li> </ul>
Analytical Ability	<ul style="list-style-type: none"> <li>• Visual Reasoning</li> <li>• Statement and Conclusions</li> <li>• Relationships</li> <li>• Logical Reasoning</li> <li>• Attention to details,</li> <li>• Flow Chart</li> </ul>
Pseudocode	<ul style="list-style-type: none"> <li>• Sequence</li> <li>• While</li> <li>• Repeat-until</li> <li>• For</li> <li>• If-then-else</li> <li>• Case</li> </ul>
Common Applications and MS Office	<p><b>MS Word</b></p> <ul style="list-style-type: none"> <li>• Creating, editing, saving and printing text documents</li> <li>• Font and paragraph formatting</li> <li>• Simple character formatting</li> <li>• Inserting tables, smart art, page breaks</li> <li>• Using lists and styles</li> <li>• Working with images</li> <li>• Using Spelling and Grammar check</li> <li>• Understanding document properties</li> <li>• Mail Merge</li> </ul> <p><b>MS Excel</b></p> <ul style="list-style-type: none"> <li>• Spreadsheet basics</li> <li>• Creating, editing, saving and printing spreadsheets</li> <li>• Working with functions &amp; formulas</li> <li>• Modifying worksheets with color &amp; autoformats</li> </ul>



	<ul style="list-style-type: none"> <li>Graphically representing data: Charts &amp; Graphs</li> <li>Speeding data entry: Using Data Forms</li> <li>Analyzing data: Data Menu, Subtotal, Filtering Data</li> <li>Formatting worksheets</li> </ul> <p><b>MS Power Point</b></p> <ul style="list-style-type: none"> <li>Securing &amp; Protecting spreadsheets</li> <li>Opening, viewing, creating, and printing slides</li> <li>Applying auto layouts</li> <li>Adding custom animation</li> <li>Using slide transitions</li> <li>Graphically representing data : Charts &amp; Graphs</li> <li>Creating Professional Slide for Presentation.</li> </ul>
Coding	<ul style="list-style-type: none"> <li>Data types</li> <li>Operators</li> <li>Arrays</li> <li>Strings</li> <li>Decision Making</li> <li>Looping</li> <li>Functions</li> <li>Scenario-based questions</li> </ul>

## Accenture Slot Analysis

- There was 100% topic repetition from the syllabus trained by FACE Prep in its Accenture training programme.
- Difficulty level of Pseudocode questions ranged from easy to moderate.
- Difficulty level of English Ability questions ranged from easy to moderate.
- Most of the questions in Numerical Ability section were from Profit and Loss, Data Interpretations, Percentages and Time and Work.
- Most of the questions in Analytical Reasoning section were from Number Series, Data Arrangement, Visual Reasoning and Statement and Conclusion.
- Basic questions from MS Word, MS Excel and Computer Applications were asked in Common Applications and MS Office section.
- Overall Test Difficulty level settles around MODERATE.

## Accenture Numerical Ability

---

1. Leslie sold her two bikes, one at 10% loss and the other at 20% profit. Find her overall profit percentage if she sold both the bikes at the same price.

A. 2.857%  
B. 2.625%  
C. 2.425%  
D. 1.687%

**Answer: A**

2. Martha and Sarah leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sarah takes 3 hours to reach her destination, while Martha takes 5 hours to reach her destination. If the speed of Sarah is 40 km/hr, what is the average speed of Martha and Sarah?

A. 24.92 km/hr  
B. 24.8 km/hr  
C. 35.1 km/hr  
D. 34.92 km/hr

**Answer: D**

3. Judith lost an amount of \$32 when she sold an item at a loss of 8%. What is the cost price of the item?

A. \$700  
B. \$400  
C. \$600  
D. \$500

**Answer: B**

4. Length of the hypotenuse of a right-angled triangle is 40% of its perimeter. If the perimeter of the triangle is 65 cm, then find the length of its hypotenuse.

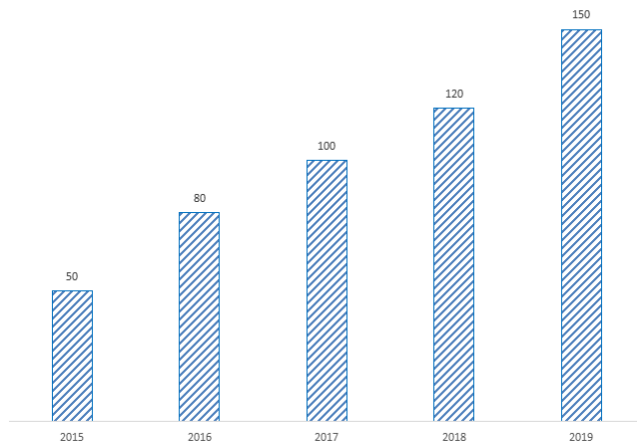
A. 32 cm  
B. 28 cm  
C. 23 cm  
D. 26 cm

**Answer: D**

**Direction (Q5 to Q7):** The graph given below represents the quantity of exports of a country (in million tonnes).

Study the graph carefully and answer the question that follow.

Quantity of exports of a country (in million tonnes)



5. What is the percentage growth in quantity of exports from 2015 to 2018?

- A. 150%
- B. 140%
- C. 82.5%
- D. 87.5%

**Answer: B**

6. Find the ratio of exports in the year 2016 to those in 2019.

- A. 12 : 17
- B. 5 : 6
- C. 8 : 15
- D. 6 : 5

**Answer: C**

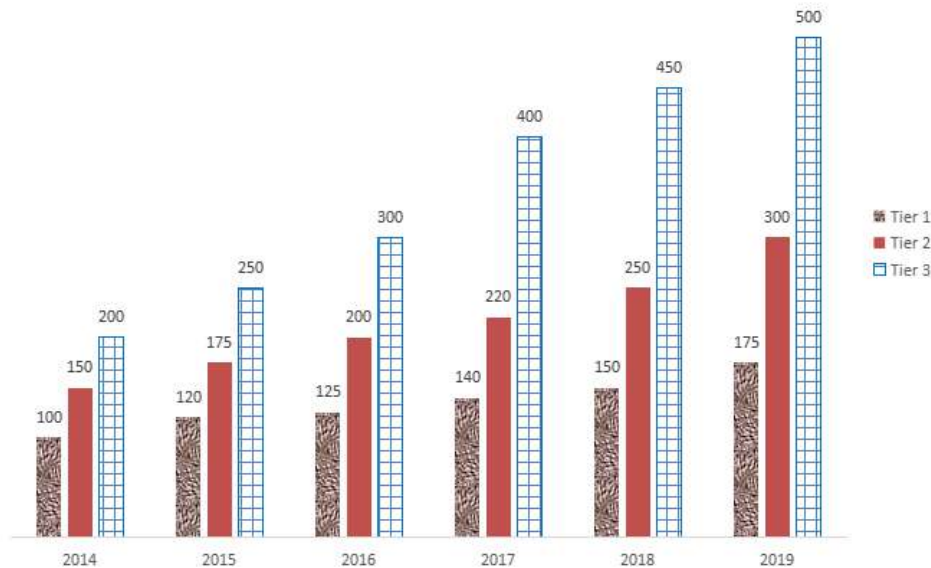
7. The ratio of the monthly incomes of Andy and Ben is 6 : 7. If the sum of their monthly income is \$26,000, then find Ben's monthly income.

- A. \$12,000
- B. \$14,000
- C. \$18,000
- D. \$8,000

**Answer: B**

**Direction (Q8 to Q10):** The graph given below represents number of engineering students (in thousands) at institutions of different kinds for the years 2014 to 2019. Study the graph carefully and answer the question that follow.

Numer of Engineering Students (in '000s) in a city



8. In 2016, what percent of that total engineering students were studying in Tier 1 Colleges?

- A. 20%
- B. 18%
- C. 25%
- D. 31%

**Answer: A**

9. What is the percentage growth of total number of engineering students across the different institutions from 2014 to 2018?

- A. 88.88%
- B. 85.67%
- C. 95.67%
- D. 92.33%

**Answer: A**

10. If total number of engineering students in 2013 was 40% lower than that in 2016, then find the total number of engineering students in 2013?

- A. 425000
- B. 375000
- C. 410000
- D. 350000

**Answer: B**



11. Jack and Mark together, Mark and John together can do a work in 45 days and 60 days respectively. If Jack is thrice as efficient as John, then find the number of days taken by Jack and John together to complete the job.
- A. 120 days
  - B. 180 days
  - C. 60 days
  - D. 90 days

**Answer: D**

12. Find the value of  $11x + 7y$  at  $(-2, 3)$ .
- A. 1
  - B. 2
  - C. 0
  - D. -1

**Answer: A**

13. Oscar is twelve years older than Jack. If the present age of Jack is 9 years, then find the present age of Oscar.
- A. 18 Years
  - B. 14 Years
  - C. 21 Years
  - D. 17 Years

**Answer: C**

14. Mark, Ben and Tim can do a piece of work in 12, 24 and 36 respectively. Mark starts the work and Ben joins him after one-third of the work is done. Tim joins them after half the work is done. For how many days does Tim work in order to complete it?
- A.  $23/7$  days
  - B.  $36/11$  days
  - C.  $21/11$  days
  - D.  $19/13$  days

**Answer: B**

15. In a company PQR Pvt. Ltd. there are 4500 employees. When the company offered a voluntary retirement scheme (VRS), 25% of the employees applied for the VRS. After scrutinizing, the company rejected 20% of the applicants. But only 200 employees took retirement through the scheme. What percentage of the employees did not take retirement even after their applicants not being rejected?
- A. 52.56%
  - B. 88.89%
  - C. 77.77%
  - D. 67.67%

**Answer: C**





16. Bryce obtained 80, 75, 75 and 60 marks (out of 100) in Botany, Zoology, Chemistry and Physics respectively. Find his average marks.

A. 72.5

B. 84

C. 85

D. 70.2

**Answer: A**

## Accenture Analytical Ability

1. Find the missing term in the series given below.

7, 14, 28, 49, 77, ?, 154

- A. 112
- B. 111
- C. 101
- D. 102

**Answer: A**

**Direction (Q2 to Q4):** Read the instruction given below carefully and answer the question that follow.

Michael's Company is hiring for Marketing Intern and have shortlisted five candidates - Angela, Jessica, Mindy, Karen, and Ivy (not necessarily in the same order). They all were called on one of these time slots - 10 AM, 10:30 AM, 11 AM, 11:30 AM and 12 PM.

The following information is known about there interview schedule.

- Angela and Karen's interview weren't scheduled in the last slot of the day.
- Mindy's interview was scheduled at 11 AM, and after that Jessica who was interviewed immediately after Angela.
- Karen's interview was not scheduled in first slot of the day,

2. When was Karen interviewed?

- A. 11 AM
- B. 11:30 PM
- C. 10:30 AM
- D. 10:00 AM

**Answer: C**

3. Who was interviewed at 12 PM?

- A. Karen
- B. Ivy
- C. Jessica
- D. Angela

**Answer: C**

4. Find the missing term in the series given below.

14, 16, 20, 26, ?, 44

- A. 42
- B. 34
- C. 32
- D. 44

**Answer: B**





5. From among the Response Figures (1), (2), (3) and (4) identify the one which follows the sequence given in the Problem Figure.

PROBLEM FIGURE:

A	●	○	C	★	○	
○	★	★	●	●	E	?

RESPONSE FIGURE:

●	★	○	★	●	☆	●	☆
G	○	F	●	H	○	F	●
(1)	(2)	(3)	(4)				

- A. 1
- B. 2
- C. 3
- D. 4

Answer: A

6. In a certain code language, letters with an odd position in the alphabet are replaced by “%”, and those with even-positions are replaced by their position numbers, then what is the sum of numbers in the code for the word PROJECTION”?

[Note: Position number starts from 1 for “A” and ends at 26 for “Z”]

- A. 80
- B. 68
- C. 78
- D. 77

Answer: C

7. In the following question, the symbols @, %, #, !, and - are used with the following meanings illustrated.

‘M @ N’ means ‘M is not greater than N’.

“M % N’ means ‘M is neither greater than nor equal to N’.

‘M # N’ means ‘M is not smaller than N.’



“M ! N’ means ‘M is neither smaller than nor equal to N’.

‘M - N means ‘M is neither smaller than nor greater than N’.

Now assuming in the following question the given statements to be true, find which of the conclusions given below them is/are definitely true and give your answer accordingly.

**Statements:**

- I. C % G
- II. G - Y
- III. Y # I

**Conclusions:**

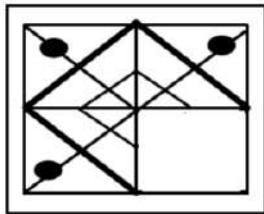
- I. Y ! C
- II. I % G
- III. I - G

- A. Only conclusion I, and either conclusion II or conclusion III follow
- B. Only conclusion II follows
- C. Only either conclusion II or conclusion III follow
- D. Only conclusion I follows

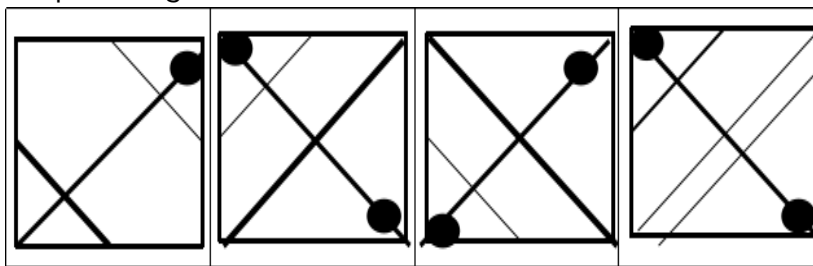
**Answer: A**

8. From the Response Figure (1), (2), (3), (4) identify the one which completes the pattern given in the problem figure.

Problem Figure:



Response Figure:



- (1)
- (2)
- (3)
- (4)

- A. (3)
- B. (4)
- C. (2)
- D. (1)

**Answer: C**



9. The statements given below are followed by some conclusions. Assume the statements are true, even if they contradict commonly known facts, and determine the conclusion/s that follow/s from the statements logically.

**Statements:**

- I. All stamps are baskets.
- II. Some baskets are hamsters.

**Conclusions:**

- I. All baskets are hamsters.
  - II. Some hamsters are stamps.
- A. Neither conclusion I nor conclusion II follows
  - B. Only conclusion I follows
  - C. Both conclusion I and conclusion II follow
  - D. Only conclusion II follows

**Answer: A**

10. In which of the following sentences occurrence of vowels is the most?

- A. I need everything on this list.
- B. I want you to tell me this.
- C. Look at the blackboard!
- D. I did not expect it to be that big.

**Answer: D**

11. The question given below is followed by two statements numbered I and II. Determine if the statements are, individually or together, sufficient to answer the question.

Question: What is the Cost Price of flour?

**Statements:**

- I. Kevin mixes flour and sugar in the ratio 3:5 to make pretzels. He sells pretzels at \$10 per kg.
  - II. The ratio of price of sugar and flour is 9:4 (per kg) and he earns  $66\frac{2}{3}\%$  profit.
- A. Statements I and II together are not sufficient to answer the question asked and additional data to the problem is needed
  - B. Each statement alone is sufficient to answer the question
  - C. Only one of the statements, alone, is sufficient to answer the question but other statement is not
  - D. Both statements I and II together are sufficient to answer the question asked but neither statement alone is sufficient

**Answer: D**

## Accenture English Ability

---

1. Fill in the blank with the most suitable option.

He likes to show \_\_\_\_\_ his wealth.

- A. off
- B. with
- C. down
- D. up

**Answer: A**

2. The sentences given below form a coherent passage when arranged logically. Choose the option which gives the correct sequence.

(1) I had had the car serviced just the previous day, so I didn't expect what happened next.

(2) My wife stopped the car and asked me to check where the sound had come from .

(3) My wife and I were taking a road trip to the other side of the country.

(4) Just as we crossed out of state limits, we heard a loud pop.

(5) And lo, we had not one, but two punctures, much to the anger of my wife.

- A. 3 1 4 2 5
- B. 1 3 4 2 5
- C. 1 3 4 5 2
- D. 3 1 4 5 2

**Answer: B**

3. Fill in the blank with the most suitable option.

I know you're tired, and so I \_\_\_\_\_ arrangements for you to stay in the guest house tonight.

- A. Have been made
- B. Had been made
- C. Have made
- D. To make

**Answer: C**

4. Which part of the sentence given below has an error in it?

When will you stop / blaming everyone else / and start take responsibility / for your actions?

- A. Blaming everyone else
- B. And start take responsibility
- C. When will you stop
- D. For your actions?

**Answer: B**

5. Fill in the blank with the most suitable option.

I am \_\_\_\_\_ of the same routine every day.

- A. Exhausted
- B. Angry
- C. Tired

D. Innocent

**Answer: C**

**Direction (Q6 to Q8): Read** the passage given below and answer the questions that follow.

The savory smell. The crunchy bite. The salty kick. The buttery finish. Americans will recognize the smell and flavor of their favorite moviegoing snack anywhere. Why is it that we feast our taste buds on these crisp kernels while our eyes feast on the big screen?

A few converging aspects made popcorn the quintessential movie snack, according to Andrew F. Smith, author of *Popped Culture: A Social History of Popcorn in America*. Mostly, it boiled down to the snack's price, convenience, and timing. Popcorn was cheap for sellers and for customers, and making it didn't require a ton of equipment. Popcorn also became popular at a time when movie theatres were in desperate need of an economic boost, which is how popcorn got introduced to the silver screen.

Fun fact: popcorn does not refer to the popped kernel alone. It's also the name for the specific type of corn that is used to make the snack. It was originally grown in Central America and became popular in the U.S. in the mid-1800s. Compared with other snacks at the time, it was super easy to make, and it got easier in 1885 when the mobile steam-powered popcorn maker was invented. What hit the streets in the late 19th century was a fleet of independent popcorn purveyors. They were like the great-great-grandfathers of food trucks.

6. Choose the option that is **closest in meaning** to the word "quintessential" as used in the passage.

- A. Curious
- B. Attractive
- C. Typical
- D. Tasty

**Answer: C**

7. This passage is primarily concerned with:

- A. Discussing how popcorn was invented
- B. Discussing the economics of making popcorn
- C. Debating why popcorn is given so much importance in movie halls
- D. Discussing the rise in popularity of popcorn

**Answer: D**

8. Popcorn became popular in movie halls because:

- A. It was tasty yet cheap for customers.
- B. It was cheap and easy to make.
- C. It was imported from Central America.
- D. None of the mentioned options

**Answer: B**

9. Mark the option which is **closest to the meaning** of the word given below.

INVERT

- A. Reply

- B. Insert
- C. Call
- D. Reverse

**Answer: D**

10. Which part of the sentence given below has an error in it?  
Is the medicine/you suggested/also affective/against bodyache?
- A. Also affective
  - B. You suggested
  - C. Against bodyache?
  - D. Is the medicine

**Answer: A**

11. Fill in the blank with the most suitable option.  
By the time the instructions were announced, the students \_\_\_\_\_ the question papers.
- A. Has been
  - B. See
  - C. Seen
  - D. Had been

**Answer: D**

12. The sentences given below from a coherent passage when arranged logically choose the option which gives the correct sequence.
1. I had seen the accused once before in the driveway of the mall in fact.
  2. At the time of the crime I was existing from the movie theatre when i saw the accused pointing a gun at the cashier.
  3. He took the cash ran quickly (and I chased), and then threw the bag of cash in the same car I had seen him in at the previous instance.
- A. 3 1 2
  - B. 2 1 3
  - C. 1 3 2
  - D. 2 3 1

**Answer: B**

13. Mark the option which is the **closest in meaning** to the word given below.  
MUZZLE
- A. Banish
  - B. Arrest
  - C. Hug
  - D. Stop from speaking

**Answer: B**

14. Mark the option which is the **closest in meaning** to the word given below.  
SURESHOT



- A. Dead
- B. Talented
- C. Certain
- D. Dangerous

**Answer: C**

15. Fill in the blanks with the most suitable option.

\_\_\_\_\_ efficient way to solve \_\_\_\_ case would be to investigate at the site , but unfortunately it was set on fire last night.

- A. A, a
- B. A, the
- C. An, a
- D. An, the

**Answer: D**

16. Choose the best replacement for the underlined part of the sentence.

Samuel's contribution is often ignored, but the new boss has taken note of his hard work.

- A. Often is ignored
- B. Is frequently ignored
- C. Was being ignored
- D. Was often ignored

**Answer: D**

17. Choose the best replacement for the underlined part of the sentence.

I appreciated the delegation for themselves going into the field and collecting data to ensure maximum accuracy.

- A. For themselves going into the field
- B. For going themselves into the field
- C. Themselves for going into the field
- D. For going into the field themselves

**Answer: D**

## Accenture Pseudocode

1. What will be the output of the following pseudocode?

```
1 Integer x, y
2 Set x = 4, y = 7
3 X = x + y
4 Y = x - y
5 X = x + 4
6 Print x, y
```

- A. 15, 4  
B. 4, 7  
C. 11, 4  
D. None of the mentioned options

**Answer: B**

2. What will be the output of the following pseudocode?

```
1 Integer a, b, c
2 Set a = 1, b = 2
3 For (each c from 1 to 3)
4 if(a + (b ^ c) )
5 a = a + 1
6 if ( c ^ 2 )
7     Continue
8     End if
9 End if
10 a = a + 1
11 End for
12 a = a + 1
13 Print a + b
```

Note- Continue: When a continue statement is encountered inside a loop, control jumps to the beginning of the loop for next iteration, skipping the execution of statements inside the body of the loop for the current iteration.

$\wedge$  is the bitwise OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1.

Otherwise, the corresponding result bit is set to 0. If(x) gets executed if the value inside if(), i.e., x is not zero]

- A. 8  
B. 9  
C. 10  
D. 11



Answer: A

3. What will be the output of the following pseudocode?

```
1 Integer a, b, c
2 Set a = 1, b = 1
3 for (each c from 4 to 7)
4     if (a > c)
5         a = a - 1
6         Jump out of the loop
7     Else
8         a = a + c
9         if(c)
10            a = a + 1
11     End if
12 End for
13 Print a + b
```

[Note: If(x) gets executed if the value inside if (), i.e. x is not zero]

- A. 7
- B. 9
- C. 2
- D. 6

Answer: D

4. What will be the output of the following pseudocode for a = 4, b = 6?

```
1 Integer funn (Integer a, Integer b)
2 a = a << (a-2)
3 b = b >> (b-5)
4 a = a + 1
5 b = b + 1
6 Return a + b
7 End function funn()
```

[Note>> bitwise right shift operator, it takes two numbers, right shifts the bits of the first operand, the second operand decides the number of places to shift.

<< is left shift operator, it takes two numbers, left shifts the bits of the first operand, the second operand decides the number of places to shift]

- A. 21
- B. 33
- C. 19
- D. 22

Answer: A



5. What will be the output of the following pseudocode for  $a = 3$ ,  $b = 0$ ?

```

1 Integer funn (Integer a, Integer b)
2     if(b)
3         return 1
4     Else
5         return funn (a+2, b+1)
6     End if
7 End funn()

```

[Note: if(x) gets executed if the value inside if(), i.e., x is not zero]

- A. 4
- B. 14
- C. -18
- D. 1

**Answer: D**

6. What will be the output of the following pseudocode?

```

1 Integer a, b , c
2 Set a=0, b=1, c=2
3 If (b^c || a&b || a>>1)
4     c = 9
5     a = b + c
6 Else
7     c = 1
8     a = b + c
9 End if
10 Print a + b + c

```

[Note - >>-Bitwise right shift operator, it takes two numbers, right shifts the bits of the first operand, the second operand decides the number of places to shift.

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding bit is set to 0.

- A. 13
- B. 0
- C. 20
- D. 45

**Answer: C**



7. What will be the output of the following pseudocode?

```
1 Integer a, b, c, d
2 a = 103, b = 102, c = 11, d = 10
3 a = a - b
4 b = (b-2) * (a&b)
5 c = (c & a) + (b-2)
6 if(c MOD a EQUALS 0 OR fun(c ^ 15)) // create function to get boolean as return
7     d = d + 13
8 end if
9 Print d
```

[Note: MOD finds the remainder the division of one number by another. For example, the expression "5 MOD 2" would evaluate to 1 because 5 divided by leaves a quotient of 2 and a remainder of 1.

& - Bitwise AND operator, it takes two numbers as operands and does AND on every bit of two numbers. The result of AND is 1 only if both bits are 1.

^ - is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0]

- A. 13
- B. 0
- C. 23
- D. 56

**Answer: C**

8. What will be the output of the following pseudocode?

```
1 Integer result and set num1=5, num2=7, num3=6 result
2 if(num1 > num2)
3     if(num1 > num3)
4         result = num1
5     else
6         result = num3
7 else
8     if(num2 > num3)
9         result = num2
10    else
11        result = num3
12 Print result
```

- A. 7
- B. 5
- C. None of the mentioned options
- D. 4

**Answer: A**

9. What will be the output of the following pseudocode?

```
1 Integer a, b, c
2 Set a = 2, b = 3
3 for (each c from 3 to 5)
4     if(c > 3 || b > 3)
5         a = a + c
6     End if
7     b = b - 1
8     b = b + 2
9 End for
10 b = b + 1
11 Print a + b
```

[Note: || : Logical OR- The logical OR operator (||) returns the boolean value TRUE (or 1) if either or both operands is TRUE and returns FALSE(or 0) otherwise]

- A. 37
- B. 18
- C. 31
- D. 32

**Answer: B**

10. What will be the output of the following pseudocode?

```
1 Integer a, b, c
2 Set a = 1, b = 1
3 for (each c from 3 to 6)
4     a = a + b
5     if(a<0 || b>0)
6         b = 10
7         a = 11
8         continue
9     End if
10    b = a
11    a = b
12 End for
13 Print a + b
```

[Note- Continue: When a continue statement is encountered inside a loop, control jumps to the beginning of the loop for next iteration, skipping the execution of statements inside the body of the loop for the current iteration.

||: Logical OR - The logical OR operator (||) returns the boolean value TRUE (or 1) if either or both operands is TRUE and returns FALSE(or 0) otherwise]

- A. 23
- B. 45
- C. 56
- D. 21

**Answer: D**



11. What will be the output of the following pseudocode for a = 5, b = 4?

```
1 Integer funn (Integer a, Integer b)
2   a = a + b
3   b = a - b
4   a = a + b
5   b = a - b
6   return a + b
7 End function funn()
```

- A. 20
- B. 23
- C. 28
- D. 42

Answer: B

12. What will be the output of the following pseudocode for a = 2, b = 5?

```
1 Integer funn(Integer a, Integer b)
2   if(a + a - b > 0)
3     b = 2
4   End if
5   return a + b
6 End function funn()
```

- A. 7
- B. 15
- C. 5
- D. 8

Answer: A

13. What will be the output of the following pseudocode for a = 99, b = 2?

```
1 Integer funn (Integer a, Integer b)
2   Integer s
3   Set s = 2
4   a = a + s
5   b = b + a
6   a = 0
7   if(a)
8     return a
9   Else
10    a = a + s
11    b = b + a
12  End if
13  return a
14 End function funn()
```

- A. 2
- B. 8
- C. 6

D. 3

Answer: A

14. What will be the output of the following pseudocode for a = 4, b = 9?

```

1 Integer funn ( Integer a, Integer b)
2     if((a & b) & (b ^ a) > 0)
3         a = 0
4     End if
5     Return a + b
6 End function funn()

```

Note- &: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

If(x) gets executed if the value inside if(), i.e., x is not zero]

A. 17

B. 4

C. 32

D. 13

Answer: B

15. What will be the output of the following pseudocode?

```

1 Integer c, n
2 Set n = 6
3 Set c = n
4 Print c //Line 4
5 C = c - 2
6 If(c > 0)
7     Go to line number 4
8 End if

```

A. 246

B. 0246

C. 6420

D. 666

Answer: D

16. What will be the output of the following pseudocode?

```

1 Integer a, b, c
2 Set a = 2, b = 4, c = 3
3 If(a-2 || -4 || c-3)
4     B = b ^ c
5 End if
6 if(a-1 || b-3 || c-2)
7     B = b & c
8 End if
9 Print a + b + c

```



Note- &: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0

||: Logical OR - The logical OR Operator (||) returns the boolean value TRUE(or 1) if either or both operands is TRUE and returns FALSE(or 0) otherwise]

- A. 10
- B. 45
- C. 5
- D. 7

**Answer: C**

17. What will be the output of the following pseudocode?

```

1 Integer a, b, c
2 Set a = 1, b = 4, c = 2
3 If (1 && 1)
4     C = (a & b) + (a^b)
5     if(c)
6     C = a
7 End if
8 End if
9 Print c + a + b

```

Note- &&:Logical AND - The logical AND operator (&&) returns the Boolean value true(or 1) if both operands are true and return false {or 0) otherwise

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

^ is the bitwise exculsive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0

If(x) gets executed if the value inside if(), i.e., x is not zero]

- A. 4
- B. 5
- C. 6
- D. 7

**Answer: C**

18. What will be the output of the following pseudocode?

```
1 Integer a, b, c
2 Set a=1, b = 0, c =3
3 If (a &1)
4     A = (a & b) & (a ^ b)
5     B = (a & b) ^ (a ^ b)
6 End if
7 Print a + b + c
```

Note-&: bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

If(x) gets executed if the value inside if(), i.e., x is not zero.]

- A. 1
- B. 2
- C. 3
- D. 4

**Answer: C**



## Accenture Common Applications and MS Office

1. If you have inserted an image in MS Word, then which of the following modifier keys should you use if you want to resize the image in the same proportions?
  - A. Ctrl
  - B. Alt
  - C. Windows
  - D. Shift

**Answer: D**

2. In MS Office, if the value in A2 is "sanjay" and B2 is "gmail.com", then which of the following functions will return "sanjay@gmail.com" in cell C2?
  - A.  $A2\#\text{"@"}\#B2$
  - B.  $A2+\text{"@"}+B2$
  - C.  $A2\&\text{"@"}\&B2$
  - D.  $A2\$\text{"@"}\$B2$

**Answer: C**

3. If you want to replace a word from a MS Word document, then which of the following key combinations should you use?
  - A. Ctrl + H
  - B. Ctrl + R
  - C. Ctrl + T
  - D. Ctrl + E

**Answer: A**

4. In MS Excel, if you want to copy the entire worksheet including the formatting, then what should you do?
  - A. Click on the top-right corner of the sheet and copy
  - B. Ctrl+A and Cut
  - C. Click on the top-left corner of the sheet and copy
  - D. Ctrl+A and Copy

**Answer: D**

5. Which of the following keys will open the given screen on your computer?
  - A. Ctrl + Shift + Windows
  - B. Ctrl + Alt + Delete
  - C. Alt + F4
  - D. Ctrl + Shift + N

**Answer: D**

6. While printing a document, portrait and landscape are the options provided for which of the following settings?
  - A. Print type

- B. Page Size
- C. Page Layout
- D. Page Orientation

**Answer: D**

7. If mistakenly you have deleted the values of a few cells in Excel, then which of the following key combinations should you press to undo step?
- A. Ctrl + Z
  - B. Shift + Z
  - C. Windows + Z
  - D. Alt + Z

**Answer: A**

8. When you take a screenshot by using PrtSc + Windows key, then by default the screenshot is saved in which folder?
- A. Documents
  - B. Downloads
  - C. Desktop
  - D. Pictures

**Answer: D**

## Accenture Fundamentals of Networking, Security and Cloud

---

1. How many bytes of bit keys are used by AES?

- A. 196 Bit Key
- B. 128, 192 and 256 Bit Keys
- C. 132 Bit key and 196 Bit Key
- D. 126 Bit Key and 192 bit Key

**Answer: B**

2. Which of the following routines of virus encryptions in network security can change their code on the fly?

- A. Octamorphic Encryption routine
- B. Metamorphic Encryption Routine
- C. Oligomorphic Encryption Routine
- D. Polymorphic Encryption Routine

**Answer: B**

3. Which of the following factors differentiates between cloud and data centers based on storing and accessing massive amounts of data in an organization as a cost-effective alternative?

- A. Throughput and Performance
- B. Customization and Scalability
- C. Availability and Durability
- D. Security and Cost

**Answer: B**

4. What are the three most depressing cloud issues faced by the organisations while delivering comprehensive throughput and security?

- A. Cost, Reliability and Durability
- B. Email Security, Web Security, Identity Management
- C. Filtering, Scalability and Accessibility
- D. DDoS Attacks, Viruses and Unauthorized Users

**Answer: A**

5. What are the standards designed for data centre infrastructure that ensures data transmission smoothly and securely?

- A. Basic Site Infrastructure and Redundant-capacity component site infrastructure Standard
- B. All of the mentioned options
- C. Fault-tolerant site infrastructure Standard
- D. Concurrently maintainable site infrastructure Standard

**Answer: A**

6. What are the factors that are responsible for depleting network security protocols and acts as a threat to the networking servers?

- A. Hacker Attacks and Threats

- B. Natural Disasters
- C. Backdoor and Leakage of Computer Software
- D. All of the mentioned options

**Answer: A**

7. Which of the following network security servers provide access control and data encryption between two different computers on the same network?
- A. Encrypted Servers
  - B. Virtual private networks
  - C. Dedicated network security
  - D. Identity servers

**Answer: B**

## Accenture Coding

### Superior array element

#### Problem statement

In an array a superior element is one which is greater than all elements to its right. The rightmost element will always be considered as a superior element.

You are given a function,

```
Int FindNumberOfSuperiorElements(int* arr, int n);
```

The function accepts an integer array 'arr' and its length 'n'. Implement the function to find and return the number of superior elements in array 'arr'.

#### Assumptions:

1.  $N > 0$ .
2. Array index starts from 0.

#### Example:

Input	Output	Explanation
Arr: 7 9 5 2 8 7	3	9 is greater than all the elements to its right, 8 is greater than element to its right and 7 is the rightmost element. Hence total 3 superior elements.

#### The Custom input format for the above case:

```
6
7 9 5 2 8 7
```

(The first line represents 'n' the second line represents the elements of the array 'arr')

Sample Input	Sample Output
Arr : 2 8 9 7 4 2	4

The custom input format for the above case:

#### Input:

```
6
2 8 9 7 4 2
```

(The first line represents 'n', the second line represents the elements of the array 'arr')

#### Output:

```
4
```

Explanation: 9 is greater than all the elements to its right, 7 is greater than element to its right, 4 is greater than element to its right and 2 is the rightmost element. Hence total 4 superior elements.

#### Code Solution in Python

```
1 arr=list(map(int, input().split()))
2 c=0
3 for i in range(len(arr)-1):
4     j=i+1
5     arr_n=arr[j:]
6     m=max(arr_n)
7     if arr[i] > m:
8         c+=1
9 print(c+1)
```

### Code Solution in JAVA

```
1 import java.io.*;
2 import java.util.*;
3 class CountSuperior
4 {
5
6     int NoOfSuperior(int arr[], int size)
7     {
8         int ans=0;
9         for (int i = 0; i < size; i++)
10        {
11            int j;
12            for (j = i + 1; j < size; j++)
13            {
14                if (arr[i] <=arr[j])
15                    break;
16            }
17            if (j == size) // the loop didn't break
18                ans++;
19        }
20        return ans;
21    }
22
23
24    public static void main(String[] args)
25    {
26        CountSuperior superior= new CountSuperior();
27        int n;
28        Scanner sc=new Scanner(System.in);
29        n=sc.nextInt();
30        int[] arr = new int[n];
31        for(int i=0; i<n; i++)
32        {
33            arr[i]=sc.nextInt();
34        }
35
36        System.out.print(superior.NoOfSuperior(arr, n));
37    }
38
39 }
```

### Code Solution in C++

```
1 #include<iostream>
2 using namespace std;
3 int CountSuperior (int arr[], int size)
4 {
5     int ans=0;
6     for (int i = 0; i < size; i++)
7     {
8         int j;
9         for (j = i+1; j < size; j++)
10        {
11            if (arr[i] <=arr[j])
12                break;
13        }
14        if (j == size) // the loop didn't break
15            ans++;
16    }
17    return ans;
18 }
19
20 int main()
21 {
22
23     int n;;
24     cin>>n;
25     int arr[n];
26     for (int i = 0; i < n; i++)
27         cin>>arr[i];
28     cout<<CountSuperior(arr,n);
29     return 0;
30 }
```



## Code Solution in C

```
1 #include<stdio.h>
2 int CountSuperior (int arr[], int size)
3 {
4     int ans=0,i;
5     for ( i = 0; i < size; i++)
6     {
7         int j;
8         for (j = i+1; j < size; j++)
9         {
10            if (arr[i] <=arr[j])
11                break;
12        }
13        if (j == size) // the loop didn't break
14            ans++;
15    }
16    return ans;
17 }
18
19 int main()
20 {
21
22     int n,i;
23     scanf("%d",&n);
24     int arr[n];
25     for ( i = 0; i < n; i++)
26         scanf("%d",&arr[i]);
27     printf("%d",CountSuperior(arr,n));
28     return 0;
29 }
```





One of Accenture drive concluded on **6-September-2021** with the third slot happening on for the students from **5:00 PM to 7:30 PM**. This document details the **Slot Analysis** as well as **Answers to Questions** that students recollected post the test.

**Disclaimer:**

1. The questions showcased in this document have been recreated through memory, thanks to test-takers who recalled the questions post their test.
2. The questions repetition between the slots is expected to be very miniscule.
3. Please use this document as an indicative preparation tool, rather than exact replica of the questions that appeared or can appear in the Accenture Online Test.

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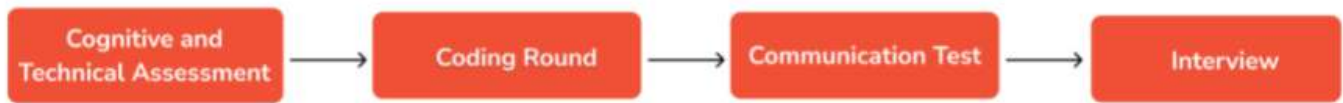
## Accenture Roles and Packages

This year Accenture recruitment for 2022 pass-outs has come up with two roles with exciting packages. They are as follows.

- Associate Software Engineer (4.5 LPA)
- Advanced Associate Software Engineer (6.5 LPA)



## Accenture Recruitment Process



## Accenture Online Test Pattern

Round	Round Name	#Qs	Sections Name	#Qs in Sections	Duration (In Mins)
1	Cognitive and Technical Assessment	90	English Ability	17	90
			Critical Reasoning and Problem Solving	18	
			Abstract Reasoning	15	
			Common Applications and MS Office	12	
			Pseudocode	18	
			Networking and Security	10	
2	Coding	2	-	-	45

## Accenture Online Test Assessment Platform

Assessment Platform	Intra - sectional Navigation	Sectional Navigation Marking Scheme	Marking Scheme
AON-CoCubes/ Wheebox/ Mettl	Allowed	Allowed	No Negative Marking

## Accenture Online Test Syllabus

Section	Topic
English Ability	<ul style="list-style-type: none"> <li>• Reading Comprehension</li> <li>• Articles</li> <li>• Prepositions</li> <li>• Sentence Correction,</li> <li>• Speech and Voice</li> <li>• Tenses, Synonyms</li> <li>• Antonyms, Spellings</li> <li>• Idioms and Phrases</li> </ul>



<p>Critical Reasoning and Problem solving</p>	<ul style="list-style-type: none"> <li>● Critical reasoning</li> <li>● Flowcharts</li> <li>● Data arrangements</li> <li>● Data sufficiency</li> <li>● Syllogisms</li> </ul>
<p>Abstract Reasoning</p>	<ul style="list-style-type: none"> <li>● Coding and Decoding</li> <li>● Visual Reasoning</li> <li>● Odd man out</li> <li>● Series</li> </ul>
<p>Pseudocode</p>	<ul style="list-style-type: none"> <li>● Sequence</li> <li>● While</li> <li>● Repeat-until</li> <li>● For</li> <li>● If-then-else</li> <li>● Case</li> </ul>
<p>Common Applications and MS Office</p>	<p><b>MS Word</b></p> <ul style="list-style-type: none"> <li>● Creating, editing, saving and printing text documents</li> <li>● Font and paragraph formatting</li> <li>● Simple character formatting</li> <li>● Inserting tables, smart art, page breaks</li> <li>● Using lists and styles</li> <li>● Working with images</li> <li>● Using Spelling and Grammar check</li> <li>● Understanding document properties</li> <li>● Mail Merge</li> </ul> <p><b>MS Excel</b></p> <ul style="list-style-type: none"> <li>● Spreadsheet basics</li> <li>● Creating, editing, saving and printing spreadsheets</li> <li>● Working with functions &amp; formulas</li> <li>● Modifying worksheets with color &amp; autoformats</li> <li>● Graphically representing data: Charts &amp; Graphs</li> <li>● Speeding data entry: Using Data Forms</li> <li>● Analyzing data: Data Menu, Subtotal, Filtering Data</li> <li>● Formatting worksheets</li> </ul>



	<p><b>MS Power Point</b></p> <ul style="list-style-type: none"> <li>● Securing &amp; Protecting spreadsheets</li> <li>● Opening, viewing, creating, and printing slides</li> <li>● Applying auto layouts</li> <li>● Adding custom animation</li> <li>● Using slide transitions</li> <li>● Graphically representing data : Charts &amp; Graphs</li> <li>● Creating Professional Slide for Presentation.</li> </ul>
Coding	<ul style="list-style-type: none"> <li>● Data types</li> <li>● Operators</li> <li>● Arrays</li> <li>● Strings</li> <li>● Decision Making</li> <li>● Looping</li> <li>● Functions</li> <li>● Scenario-based questions</li> </ul>

### Accenture Slot Analysis

- Difficulty level of Pseudocode questions ranged from easy to moderate.
- Difficulty level of English Ability questions ranged from easy to moderate.
- Most of the questions in Abstract Reasoning section were from Number Series,, Visual Reasoning and Coding and Decoding.
- Basic questions from MS Word, MS Excel and Computer Applications were asked in Common Applications and MS Office section.
- Overall Test Difficulty level settles around MODERATE.



## Accenture English Ability

---

1. Fill in the blank with the most suitable articles..

Someone call \_\_\_\_\_ police!

- A. a
- B. an
- C. the
- D. No article

**Answer: C**

2. Fill in the blank with the most suitable preposition.

The plane flew \_\_\_\_\_ us.

- A. by
- B. on
- C. beyond
- D. over

**Answer: D**

3. Replace the underlined word in the following sentence with the most suitable option.

It was time to be stood on her own two feet.

- A. stood
- B. stand
- C. be standing
- D. standing

**Answer: B**

4. Fill in the blank with the correct tense of the verb in the following sentence.

Only if I had known about her intentions before, I \_\_\_\_\_ alert.

- A. would have been
- B. will had been
- C. will have been
- D. would had been

**Answer: A**

5. The following question consists of a sentence that is either partly or entirely underlined and may or may not have a grammatical error. Below each sentence are four versions of the underlined part of the sentence. Choose the option that correctly rephrases the underlined part of the given sentence. Mark the answer as 'No Error' if there is no error in the underlined part.

In consider the difficulties of his position, he has acted admiralty.

- A. Considering of the difficulties
- B. Considering to the difficulties
- C. In considering to the difficulties
- D. Considering the difficulties
- E. No error

**Answer: D**



6. After carefully reading both the books, the editor and her colleague found that the only difference between them were their names.
- A. them were the names
  - B. these was their names
  - C. the books was their names
  - D. the books were their names
  - E. No error
- Answer: C**

7. John dropped his wallet coming out from the shop.
- A. John dropped the wallet coming out from the shop
  - B. While coming out of the shop, John dropped his wallet
  - C. Wallet coming out of the shop was dropped by John
  - D. While coming out of the shop, the wallet was dropped by John
  - E. No error
- Answer: B**

8. Choose the correct synonym for the following word.
- Expressive**
- A. Garrulous
  - B. Incoherent
  - C. Articulate
  - D. Verbose
- Answer: C**

9. Choose the correct antonym for the following word.
- Chivalrous
- A. Virile
  - B. Despicable
  - C. Gallant
  - D. Mannish
- Answer: B**

10. Choose the correct antonym for the following word.
- Oblivion
- A. Alert
  - B. Comely
  - C. Indifferent
  - D. Bijou
- Answer: A**

11. Choose the correct spelling of the word to fill in the blank.
- The best part of my daily \_\_\_\_\_ is to wake up early.
- A. ruotene



- B. routene
- C. ruotine
- D. routine

**Answer: D**

12. Rearrange the given phrases to form a complete sentence.

Note: The phrases numbered 1 and 6 are fixed.

- 1. Yet so few of us have
- (A) walls of daily routine
- (B) the time or the means
- (C) that enclose our lives
- (D) to break through the narrow
- 6. to get to know this land

- A. BDCA
- B. ABDC
- C. BDAC
- D. DBAC

**Answer: C**

13. Rearrange the given phrases to form a complete sentence.

Note: The phrases numbered 1 and 6 are fixed.

- 1. Effective writing involves
- A. careful choice of words, their organization
- B. in the correct order to
- C. well as cohesive composition
- D. form sentences, as
- 6. of sentences.

- A. ABCD
- B. ABDC
- C. CDAB
- D. BACD

**Answer: B**

**Direction for questions 14 to 16:** Read the following passage and answer the given question.

Paris was the undisputed capital of women's fashion from the 17th century until well into the 20th. Among 18th-century dress styles, the most typically French was the sack dress, also known as the robe à la française, which usually took the form of an open robe, with a joined bodice and skirt that opened in front to reveal an underskirt or petticoat. Fashion in the 18th century was highly decorative and luxurious for both men and women. Fashionable Display was controversial, however, and moralists were scandalized by Bernard Mandeville's Fable of the Bess(1724), which argued that private vices might be public virtues. Taking an economic approach, Mandeville pointed



out that lavish spending on dress "trickled down" to employ numerous skilled artisans, such as tailors and embroiderers.

14. One of the claims made by Mandeville was that

- A. Paris was the world's fashion capital from 17th to 18th century
- B. The sack dress was the most popular dress in France in the 18th century
- C. Women's fashion was more luxurious than men's fashion
- D. Lavish spending on dress ultimately benefited many skilled artisans

**Answer: D**

15. Why did Mandeville say 'private vices might be public virtues?'

- A. To shame people into giving up their vices
- B. To justify the lavish spending on dresses
- C. To apologize for his bad habits
- D. To encourage people to donate money to the poor

**Answer: B**

16. Which of the following is an assumption made by Mandeville in the last sentence of the passage?

- A. It made economic sense to spend lavishly as it helped the skilled artisans
- B. The employment of tailors and skilled artisans is not dependent on lavish spending on dresses.
- C. Skilled artisans belong to the low income groups
- D. Elaborate spending on dresses is justified as it helps the skilled artisans and tailors.

**Answer: A**

17. Fill in the blanks with the most suitable option.

If she \_\_\_\_\_ about the accident, she \_\_\_\_\_ visited you immediately.

- A. known, would
- B. knows, will
- C. knew, will have
- D. had known, would have

**Answer: D**





## Accenture Critical Reasoning and Problem Solving

---

1. Editor: I have received over five thousand letters and emails on the article that I wrote last week. Majority of those letters and emails support my viewpoint on the issue. These letters are, therefore, the testimonials that most of our readers have the same opinion on the issue as I do. Which of the following, if true, would weaken the editor's conclusion above?
- A. The issue was very important for the readers have a very objective opinion about the issue
  - B. Readers who agree with the editor's view feel more strongly about the issue than those who disagree with him.
  - C. Readers who agree with the editor are more likely to write to him than those who disagree with him.
  - D. Those were other articles y the same editor which invited a lot of opinion of readers

**Answer: C**

2. A food delivery company gained greater profits when it provided food delivery service in a city by following no-minimum order facility and by maintaining its own fleet of employees. Besides the commission it gets from restaurants, it charges no delivery charges for orders which are higher than a certain amount. Hoping to continue these financial trends, the company plans to start its operations in two new cities.

The plan of the food delivery company as described above directly assumes all of the following EXCEPT:

- A. The demand for food delivery service in the new cities will increase in future.
- B. Expanding into markets will compensate for any new expenses the company incurs.
- C. In the new cities, the company will be able to deliver food faster than the food delivery companies existing in those cities.
- D. The company can find enough number of partner-restaurants in the new cities to earn more than what is needed to meet the fixed expenses it has to earn.

**Answer: C**

3. In a row of 50 girls, Amy was made to sit 20 places to the right of Rose and Peter sat 20 places to the left of Emma. If Emma was thirty sixth from the left and there were four people between Peter and Amy. What was the position of Rose in the row?
- A. 20th from the right end
  - B. 25th from the left end
  - C. 49th from the right end
  - D. 1st from the left end

**Answer: C**

4. In a row of friends, Tia occupies fifteenth place from the right end and Tina occupies twelfth place from the left end, respectively. Tristen is ninth on the left of Tia. If Tristen and Tia interchange their places, then Tristen occupies twentieth place from the left end. How many friends were there between Tristen and Tina originally?
- A. 15
  - B. 12
  - C. 0



D. 3

**Answer: C**

5. Five friends A, B, C, D and E, with different occupational backgrounds (Teacher, Doctor, Accountant, Businessman, Engineer) went for a conference. The doctor sat next to B. The engineer sat in between B and C. Neither A nor the accountant sat at any of the extreme ends. If D does not sit next to B, then which of the following is definitely sitting at one of the extreme ends?

- A. A
- B. B
- C. C
- D. D

**Answer: D**

6. On a racing track, six players, U,V,W,X,Y and Z were positioned in such a way that U was to the left of Y and fourth to the left of X. W was in between and equidistant from Y and Z but Y is not adjacent to X. The winner was at the fourth section of the track from the left. Who was he?

- A. U
- B. Z
- C. W
- D. Z or W

**Answer: D**

7. Pradhan, Qureshi, rastogi, sharma and talreja are students coming from gwalior, Bhopal, indore, Ujjain and guna not necessarily in that order. They have topped in different subjects among math, English, hindi, science and geography. The student from guna has topped in math, Qureshi comes from Ujjain and sharma from gwalior. The student from indore has not topped in science. Pradhan topped in science and Talreja in geography. From which city does the topper in English come from?

- A. Guna
- B. Gwalior
- C. Indore
- D. Ujjain

**Answer: B**

8. There are six houses in a colony, such that 3 houses are in one row and the other 3 houses are in the opposite row. The three houses in a row are equidistant from each other. Each house is exactly opposite the house in the other row. Each house is painted with a different color from red, blue, green, yellow, pink and orange.

1. Houses at the corner are not painted with blue and red color
2. House painted with orange color is not opposite the house painted with green color
3. Yellow and pink colored houses are not in the same row

Which house is diagonally opposite the orange colored house?

- A. Green
- B. Yellow
- C. Pink
- D. Blue



**Answer: A**

9. Ranbir, Ranveer, Randheer, Ranjeet and Rajbeer maintain ranking for batting and bowling. The ranking was in descending order. Rajbeer, who was ranked first in batting, was last in bowling. Randheer had the same ranking in both and was just above Rajbeer in bowling. In batting, Ranbir was just above Ranjeet but in bowling, he was in the middle and he bowled after Ranveer. Who was ranked first as a bowler?
- A. Ranveer
  - B. Randheer
  - C. Rajbeer
  - D. None of these

**Answer: D**

10. Five friends, Jay, Raj, Shivansh, Monu and Mehul have different professions-Teacher, Singer, Police, Bank Manager and Actor. Each one wears different colors of ties-Yellow, Black, Grey, Green and orange though not respectively in the same order. Shivansh is an Actor but doesn't wear a Black or Orange colored tie. The person who is wearing Green colored tie is neither teacher nor police. Jay and Mehul are not Bank manager and they do not wear Yellow-colored tie. Grey colored tie is worn by Monu, who is neither a Singer nor a Bank Manager. Bank Manager wears a Green colored tie. Who is Bank Manager?
- A. Jay
  - B. Raj
  - C. Monu
  - D. None of these

**Answer: B**

11. Directions: The problem below consists of a problem followed by two statements. Decide whether the data in the statements is sufficient to answer the question. Select your answer depending upon whether the data provided in:
- (A) statement 1 alone is sufficient, but statement 2 alone is not sufficient to answer the question
  - (B) statement 2 alone is sufficient, but statement 1 alone is not sufficient to answer the question
  - (C) both statements taken together are sufficient to answer the question, but neither statement alone is sufficient to answer the question
  - (D) each statement alone is sufficient to answer the question
  - (E) statements 1 and 2 together are not sufficient, and additional data is needed to answer the question

Problem: Does the integer  $y$  have at least two different prime factors?

Statement 1:  $y/10$  is an integer.

Statement 2:  $y/6$  is an integer.

- A. A
- B. B
- C. C
- D. D



E. E

**Answer: D**

12. Taxi drivers need to remember a complex web of tens of thousands of streets whereas, bus drivers, who follow a constrained set of routes, need only a limited knowledge of the city's layout. It has been found that a part of the brain - the hippocampus - is much larger in the taxi drivers than that in the bus drivers with similar age and professional driving experience. The size of the hippocampus increases with years of professional driving experience only in the taxi drivers, and it shrinks back to the normal size when the taxi drivers retire.

If the facts stated in the passage above are true, which of the following cannot be concluded about the human brain?

- A. The size of the hippocampus region of the brain decreases with advancing age.
- B. The size of the hippocampus region is a function of the demands placed on spatial memory by navigating in a complex, large space.
- C. At least some specific structural changes in an adult human brain can be induced by relevant environmental stimulation
- D. Brain changes acquired through learning and practice might be reversed when the call on stored knowledge lessens.

**Answer: A**

13. It is the developed world that has the capability to combat climate change. It is these developed countries that have the research capabilities to come up with the necessary technology to make the economy greener, to produce renewable energy, to mitigate against the disasters. Moreover, these are the countries that have the finances available to fund these activities; not only funding the research looking for the solutions but also the financial resources to put them into action all around the world.

Which of the following conclusions can most properly be drawn from the information given above?

- A. Developing countries turn to powerful financial centers in developed countries to finance large projects to mitigate climate change.
- B. Only developed countries have the expertise to put new inventions and projects into practice to mitigate climate change.
- C. Developed nations, with their resources, have an increased responsibility to mitigate climate change.
- D. Developed nations must be the forerunners of initiatives to combat change.

**Answer: C**

14. Consider the following statements and determine which of the given conclusions follow.

Statement:

- A. All good jumpers win.
- B. All good jumpers eat well.

Conclusions:

- I. All those who eat well are good jumpers.
- II. All those who win eat well.



- A. Only I follows
- B. Only II follows
- C. Either I or II follows
- D. None follow

**Answer: D**

15. Consider the following statements and determine which of the given conclusions follow.

Statements:

- A. No pencil is an eraser.
- B. Pen is a pencil.

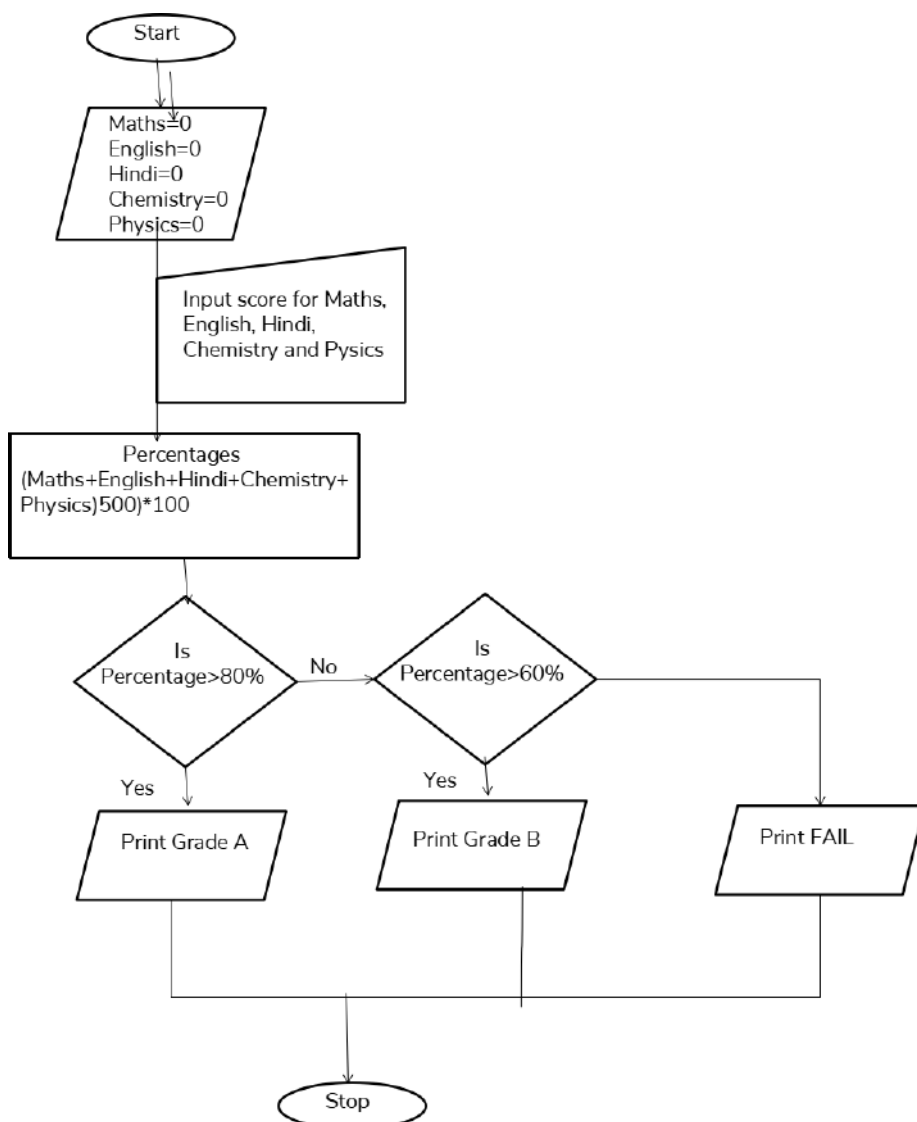
Conclusions:

- I. Pen is not an eraser.
- II. All pencils are not pens.

- A. Only conclusion I follow
- B. Only conclusion II follows
- C. Either conclusion I or II follows
- D. Neither conclusions I or II follow

**Answer: A**

16. Read the flowchart given below and answer the answer the question that follows:

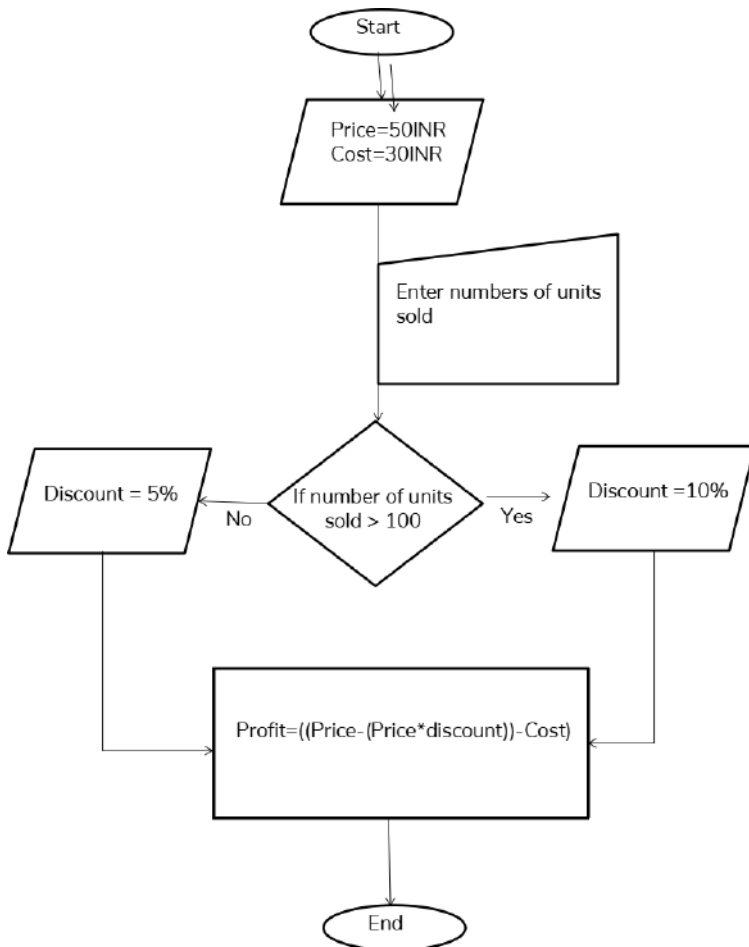


If a student has secured 57, 88, 69, 66 and 79 marks in all subjects what grade will he get?

- A. Grade A
- B. Grade B
- C. Fail
- D. Pass

**Answer: B**

17. Read the flowchart given below and answer the answer the question that follows



What is the total profit by selling 75 units of the product?

- A. 1300.5
- B. 1312.5
- C. 1500.0
- D. 187.5

**Answer: B**



## Accenture Abstract Reasoning

---

1. If COOKER = +//2\*5, ROOSTER = 5//\$%\*5, then what would be the equivalent of MOOSE most appropriately among the following?

- A. 0++\$\*
- B. 0//%\*
- C. 5//\$\*
- D. 0//\$\*

**Answer: D**

2. In a certain coding system 'BAT' is coded as 283 and 'CAT' is coded as 383; ARE is coded as 801. How will you code 'BETTER'?

- A. 213310
- B. 213301
- C. 123301
- D. 12334

**Answer: A**

3. In a certain coding system 'BOOK' is coded as 'CNPJ'. How will you code 'MOON'?

- A. NMPN
- B. MPNN
- C. NNPM
- D. PNMN

**Answer: C**

4. Find the odd word among the given options.

- A. Premeditated
- B. Rehearsed
- C. Spontaneous
- D. Calculated

**Answer: C**

5. Find the odd word among the given options.

- A. Impassioned
- B. Vehement
- C. Emphatic
- D. Apathetic

**Answer: D**

6. In this series, you will be looking at a letter pattern. Which of the given options should fill in the blank?

TEJ, VLG, XIN, \_\_\_\_\_

- A. ZJO
- B. ZJK
- C. ZKO





D. ZPK

Answer: D

7. In this series, you will be looking at a letter pattern. Which of the given options should fill in the blank?

F03K, I04H, \_\_\_\_\_, O09B, R13Y

A. M06D

B. L05D

C. M05E

D. L06E

Answer: D

8. Which of the given options is the most suitable for completing the following series?

3,6,13,28,\_\_\_\_\_

A. 56

B. 57

C. 58

D. 59

Answer: D

9. Which of the given options is the most suitable for completing the following series?

2,3,5,7,11,\_\_\_\_\_,17,19,23,29,31

A. 12

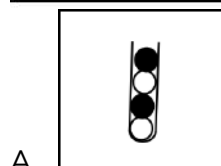
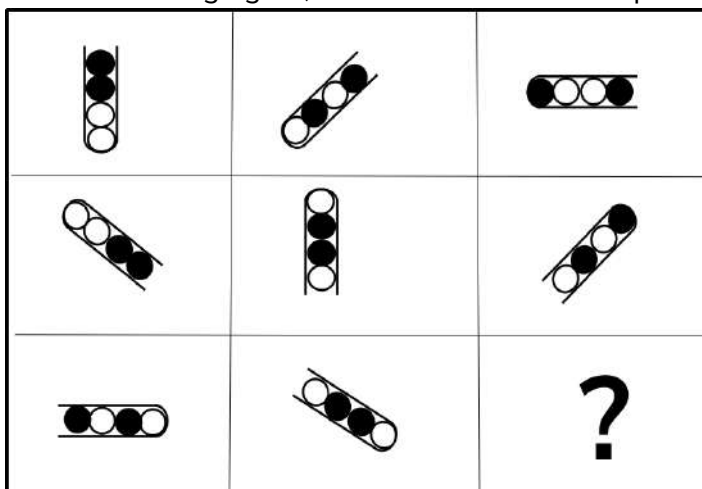
B. 13

C. 14

D. 15

Answer: B

10. Find the missing figure, which follows the same pattern/rule and mark it as the answer:





B.

C.

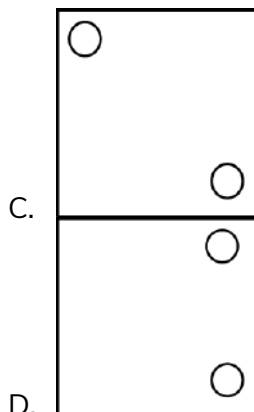
D.

Answer: D

11. Find the missing figure, which follows the same pattern/rule and mark it as the answer.


A.

B.



Answer: A

12. Mark the option that best completes the comparison.

Dhaka : Bangladesh :: ? : France

- A. Seoul
- B. Oslo
- C. Berlin
- D. Paris

Answer: D

13. Find the missing term in the series given below.

5, 5, 6, 14, ?, 105

- A. 64.
- B. 41
- C. 43
- D. 49

Answer: B

14. Find the missing term in the series given below:

7, 7, 8, 12, ?, 37

- A. 64
- B. 49
- C. 43
- D. 21

Answer: D

15. Mark the odd one out from the given options.

- A. Pig
- B. Hen
- C. Whale
- D. Cow

Answer: C

## Accenture Pseudocode

1. Consider a program that prints fibonacci series. The program takes the number of elements in the series as input from the user. Which of the following pseudocodes will print the series as required?

A.

```
1 FUNCTION PrintFibonacci(Integer NumTerms)
2 Integer Term1, Term2, NextTerm
3 SET Term1=0
4 SET Term2=1
5 FOR Term=Term1 TO NumTerms STEP 1 DO
6 IF Term<=1 THEN
7 SET NextTerm = Term
8 ELSE
9 NextTerm = Term1+Term2
10 Term1=Term2
11 Term2=NextTerm
12 END IF
13 Print NextTerm
14 END FOR
15 END FUNCTION
16
17 PROGRAM START
18 Integer NumTerms
19 GET NumTerms
20 CALL PrintFibonacci(NumTerms)
21 STOP
```

B.

```
1 FUNCTION PrintFibonacci(Integer NumTerms)
2 Integer Term1, Term2, NextTerm
3 SET Term1=0
4 SET Term2=1
5 SET NextTerm = Term1+Term2
6 FOR Term=Term1 TO NumTerms STEP 1 DO
7 Print NextTerm
8 Term1=Term2
9 Term2=NextTerm
10 NextTerm = Term1+Term2
11 END FOR
12 END FUNCTION
13
14 PROGRAM START
15 Integer NumTerms
16 GET NumTerms
17 CALL PrintFibonacci(NumTerms)
18 STOP
```

C.

```
1 FUNCTION PrintFibonacci(Integer NumTerms)
2 SET Term1=0
3 SET Term2=1
4 FOR Term=Term1 TO NumTerms STEP 1 DO
5 IF Term<=1 THEN
6 SET NextTerm = Term
7 ELSE
8 Next Term = Term1+Term2
9 Term1=Term2
10 Term2=NextTerm
11 END IF
12 Print NextTerm
13 END FOR
14 END FUNCTION
15
16 PROGRAM START
17 GET NumTerms
18 PrintFibonacci(NumTerms)
19 STOP
```

D.

```
1 FUNCTION PrintFibonacci(Integer NumTerms)
2 Integer Term1, Term2, NextTerm
3 SET Term1=0
4 SET Term2=1
5 FOR Term=Term1 TO NumTerms STEP 1 DO
6 IF Term<=1 THEN
7 SET NextTerm = Term
8 ELSE
9 Term1=Term2
10 Term2=NextTerm
11 NextTerm = Term1+Term2
12 END IF
13 Print NextTerm
14 END FOR
15 END FUNCTION
16
17 PROGRAM START
18 Integer NumTerms
19 GET NumTerms
20 CALL PrintFibonacci (NumTerms)
21 STOP
```

Answer: A

2. What will be the content of the stack after execution of the following code?

```
1 Create a stack
2 Push 1 on to the stack
3 Push 2 on to the stack
4 Push 3 on to the stack
5 pop from the stack
6 pop from the stack
7 Push 4 on to the stack
8 Push 5 on to the stack
9 Push 6 on to the stack
10 pop from the stack
11 Push 7 on to the stack
12 pop from the stack
13 pop from the stack
14 pop from the stack
```

- A. 1
- B. 1, 7
- C. 7
- D. 1, 6, 7

Answer: A

3. Which of the following is correct pseudocode using case statement for the given statement?

```
1 READ marks
2 If marks >= 100 Then
3 Print "Perfect Score"
4 ElseIf marks > 89 Then
5 Print "Grade = A"
6 ElseIf marks > 79 Then
7 Print "Grade = B"
8 ElseIf marks > 69 Then
9 Print "Grade = C"
10 ElseIf marks > 59 Then
11 Print "Grade = D"
12 Else
13 Print "Grade = F"
14 End If
```

```
1 READ marks
2 Case based on marks
3 Case >=100
4 Print "Perfect Score"
5 Case > 89
6 Print "Grade = A"
7 Case > 79
8 Print "Grade = B"
9 Case > 69
10 Print "Grade = C"
11 Case > 59
12 Print "Grade = D"
13 Else
14 Print "Grade = F"
15 End Case
```

A.

```
1 READ marks
2 Case based on marks
3 Case >=100
4 Print "Perfect Score"
5 Case > 89
6 Print "Grade = A"
7 Case > 79
8 Print "Grade = B"
9 Case > 69
10 Print "Grade = C"
11 Case > 59
12 Print "Grade = D"
13 Else
14 Print "Grade = F"
15 End IF
```

B.

C. Take marks as an input from user and store in marks

```
1 Case based on marks
2 Case >=100
3 Print "Perfect Score"
4 Case > 89
5 Print "Grade = A"
6 Case > 79
7 Print "Grade = B"
8 Case > 69
9 Print "Grade = C"
10 Case > 59
11 Print "Grade = D"
12 Default
13 Print "Grade = F"
14 End Case
```

D.

```
1 READ marks
2 Case based on marks
3 If marks >=100
4 Print "Perfect Score"
5 If marks > 89
6 Print "Grade = A"
7 If marks > 79
8 Print "Grade = B"
9 If marks > 69
10 Print "Grade = C"
11 If marks > 59
12 Print "Grade = D"
13 Else
14 Print "Grade = F"
15 End Case
```

Answer: D

4. Which of the following is the pseudocode for taking three numbers as input and printing the biggest number?

A.

```
1 READ x
2 READ y
3 READ z
4
5 If x > y OR
6 If x > z Then
7 Print z
8 Else
9 Print y
10 End If
11 Else
12 Print x
13 End If
```

B.

```
1 READ x
2 READ y
3 READ z
4
5 If x > y Then
6 If x > z Then
7 Print x
8 Else
9 Print z
10 End If
11 Else
12 Print y
13 End If
```



C.

```
1 READ x
2 READ y
3 READ z
4
5 If x > y OR
6 If x > z Then
7 Print z
8 Else
9 Print x
10 End If
11 Else
12 If y > z Then
13 Print z
14 Else
15 Print y
16 End If
17 End If
```

D.

```
1 READ x
2 READ y
3 READ z
4
5 If x > y Then
6 If x > z Then
7 Print z
8 Else
9 Print x
10 End If
11 Else
12 If y > z Then
13 Print z
14 Else
15 Print y
16 End If
17 End If
```

Answer: B

5. How many times the while loop will be executed for N= 8?

```

1 SET even = total = 0;
2 READ N
3 WHILE even <= N
4 total = total + even;
5 even = even + 2;
6 ENDWHILE
7 PRINT total

```

- A. 4
- B. 8
- C. 5
- D. 9

Answer: C

6. Provide sample pseudocode for performing an operation, multiple times, but declared only Once. A function routine is needed for calculator purpose.

A.

```

1 function addNumbers(int numOne, int numTwo) returns result{
2   return (numOne + numTwo);
3 }
4 function subNumbers(...) {.....}
5 addedValue = addNumbers (10,50);
6 addedValue = addNumbers(123,49341);
7 .....

```

B.

```

1 function addNumbers(int numOne, int numTwo) returns result{
2   return (numOne + numTwo);
3 }
4 function subNumbers(...) {.....}

```

C.

```

1 function addNumbers(int numOne, int numTwo) returns result{
2 }
3 function subNumbers(...) {.....}
4 addNumbers(10,50);
5 addNumbers(123,49341);
6 .....

```

D.

```
1 function addNumbers(int numOne, int numTwo) returns result{
2 }
3
4 addedValue = addNumbers(10,50);
5 addedValue = addNumbers(123,49341);
6 .....
```

Answer: A

7. What structure does the following pseudo code belong to?

```
1 get sequence
2 get another sequence
3 iterate sequence 1
4 for each iteration of sequence 1 iterate sequence 2
```

- A. decision
- B. sequence
- C. nested
- D. loop

Answer: C

8. What will be the output of the following code?

```
1 numbers = {1,2,3,4,5,5,6}
2 int num1 = numbers.size() - 1;
3 int num2 = 0;
4 for(each number){
5   add number to num2 and assign again to num2
6 }
7 int num3 = num2 - (num1* (num1+1)/2);
8 return num3;
```

- A. 26
- B. 5
- C. 7
- D. 21

Answer: B

9. What will be the output of the following code?

```
1 Integer pp, qq, rr
2 Set pp=3, qq=5, rr=10
3 for (each rr from 4 to 5)
4   if((5-rr+pp)>(pp+qq))
5     Jump out of the loop
6   End if
7   pp=qq+rr
8   qq=rr+pp
9 End for
10 Print pp+qq
```

- A. 41
- B. 45
- C. 37
- D. 55

Answer: A

10. What will be the output of the following code?

```
1 Integer a,b,c
2 Set a=3, b=2, c=4
3 c=(c&3)+b
4 if((9&a)<(c^9))
5   c=(a+c)+b
6 Else
7   a=3+b
8   a=(11+1)+c
9   if((c-a+b)<(b-c))
10    b=(7+1)+b
11    b=10+c
12  End if
13  b=(b^a)+b
14 End if
15 Print a+b+c
```

Note:

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

^ is the bitwise OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 28
- B. 3
- C. 21
- D. 12

Answer: D



11. What will be the output of the following code?

```

1 Integer a,b,c
2 Set a=8, b=4, c=4
3 for(each c from 2 to 3)
4     b=c+b
5     if((a+9)<(9-a))
6         Continue
7     Else
8         Jump out of the loop
9     End if
10    b=(2+8)+a
11 End for
12 Print a+b

```

**Note:** Continue: When a continue statement is encountered inside a loop, control jumps to the beginning of the loop for next iteration, skipping the execution of statements inside the body of the loop for the current iteration.

- A. 14
- B. 7
- C. 19
- D. 25

**Answer: A**

12. What will be the output of the following code?

```

1 Integer a,b,c
2 Set a=1, b=7, c=10
3 if(b>a)
4     c=2&a
5 End if
6 if((a&c&b)<(c+b-a))
7     c=(a^6)^c
8 End if
9 Print a+b+c

```

**Note-** & bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result is set to 1. Otherwise, the corresponding result bit is set to 0.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0, and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 29
- B. 20
- C. 15
- D. 12

**Answer: C**

13. What will be the output of the following code?

```

1 Integer p,q,r
2 Set p=7, q=4, r=9
3 p=(p+r)^q
4 if((p&7)+(7+9)>(p+q^r))
5     q=q&q
6     r=r^q
7     p=4+r
8 End if
9 Print p+q+r

```

**Note-** & bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result is set to 1. Otherwise, the corresponding result bit is set to 0.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0, and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 46
- B. 41
- C. 25
- D. 34

**Answer: D**

14. What will be the output of the following pseudo code for a=1, b=3, c=4?

```

1 Integer funn(Integer a, Integer b, Integer c)
2   for (each c from 5 to 8)
3     if((c^b^a)<(a^c))
4       Jump out of the loop
5     End if
6     a=(a+3)+a
7     b=3+c
8   End for
9   return a+b

```

**Note:** ^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0, and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 36
- B. 17
- C. 26
- D. 22

**Answer: D**

15. What will be the output of the following pseudo code a=5, b=5, c=5?



```

1 Integer funn(Integer a, Integer b, Integer c)
2   if((c&a)<a && (a^b)<b)
3     c=(a^2)+b
4   End if
5   return a+b+c

```

**Note-** &&: logical AND - The logical AND operator (&&) returns the Boolean value true (or 1) if both operands are true and return false (or 0) otherwise.

& bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result is set to 1. Otherwise, the corresponding result bit is set to 0.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0, and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 14
- B. 27
- C. 22
- D. 15

**Answer: D**

16. What will be the output of the following code?

```

1 Integer a,b,c
2 Set a=7, b=2, c=8
3 if((b^a)<a && (2^7)c)
4   a=b+c
5 Else
6   c=(4+12)+a
7   b=11+a
8 End if
9 Print a+b+c

```

**Note-** &&: logical AND - The logical AND operator (&&) returns the Boolean value true (or 1) if both operands are true and return false (or 0) otherwise.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0, and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 18
- B. 20
- C. 23
- D. 30

**Answer: B**

17. Consider the following pseudocode:

```

1 START
2 Integer A, B, C, Result
3 Get A, B, C
4 IF NOT (NOT1. (A>B) AND NOT (NOT(A>C)) THEN
5 SET Result = A
6 ELSE
7 IF NOT (NOT (B>A) AND NOT (NOT B>C)) THEN
8 SET Result = B
9 ELSE
10 SET Result = C
11 END IF
12 END IF
13 Print 'The result is' ,Result
14 STOP

```

- a. What is the result that the program is trying to output in this code when three numbers are input?
  - b. What will be printed when the input given to the program is 10,20,5?
- A. a. The program prints the numbers which will be found in the middle when the three numbers are sorted.  
b. The output will be 'The result is 10'
  - B. a. The program prints the largest among the three numbers input  
b. The output will be 'The result is 20'
  - C. a. The program prints the second smallest among the three numbers input  
b. The output will be 'The result is 10'
  - D. a. The program prints the smallest among the three numbers input  
b. The output will be 'The result is 5'

**Answer: B**

18. In any application like Ola, up to a certain kilometre, a fare is calculated. After that, for each kilometre, the additional fare is calculated. Choose an option that contains a sample snippet of code.

A.

```

1 Start
2 let user_travelled = 50 kms
3 Let base_kilometer = 5 kms
4 Diff_kilometer = user_travelled - base_kilometer
5 basePrice = 40
6 for (int i = diff_kilometer ; i < user_travelled ;1++) {
7 basePrice +=7;
8 }
9 Print(basePrice)
10 Stop

```



B.

```
1 Start
2 let user_travelled = 50 kms
3 let base kilometer = 5 kms
4 diff_kilometer = user_travelled - base_kilometer
5 basePrice = 40;
6 for (int i = diff_kilometer ; i < user_travelled)
7 basePrice += 7;
8 print(basePrice)
9 stop
```

C.

```
1 Start
2 let user travelled = 50 kms
3 let base kilometer = 5 kms
4 diff_kilometer = 0;
5 basePrice = 0;
6 for (int i = diff_kilometer ; i < user_travelled ;I++) {
7 basePrice += 7;
8 }
9 print(basePrice)
10 Stop
```

D.

```
1 Start
2 let user travelled = 50 kms
3 let base kilometer = 5 kms
4 diff_kilometer = user_travelled - base_kilometer
5 basePrice = 40;
6 for (int i = 0 ; i < user_travelled ;I++) {
7 basePrice += 7;
8 }
9 print(basePrice)
10 Stop
```

Answer: D



## Accenture Common Applications and MS Office

1. What does the formula =LEN("I love Mett") will return?

- A. Name Error
- B. Reference Error
- C. 12
- D. 10

**Answer: C**

2. Which of the following functions will you use to extract the month from a date given in a cell in MS Excel?

- A. CURRENTMONTH()
- B. DATE()
- C. DAY()
- D. MONTH()

**Answer: D**

3. If you want that all the numbers between the 0 and 50 in a range should be displayed in blue color. you should perform which of the following operations?

- A. Select the numbers in range from 0 to 50 color it blue
- B. Use If function
- C. Apply conditional formatting
- D. All of the given options

**Answer: D**

4. Consider the following table. You have used the following formula for it.

A	B	C	D	E	F	G	H
Name	Feb	March	April				
James	34000	763211	23411		Name	Burrow	
Jac	3200	22400	12853		Month	March	
Jacob	26000	3200	47204		Sales		
Burrow	43000	12300	853902				
Colby	64300	3200	934402				
Kyle	1200	32567	928382				

=VLOOKUP(G2, data, MATCH(G3 months,0),0)

When would you use MATCH function and what is its replacement?

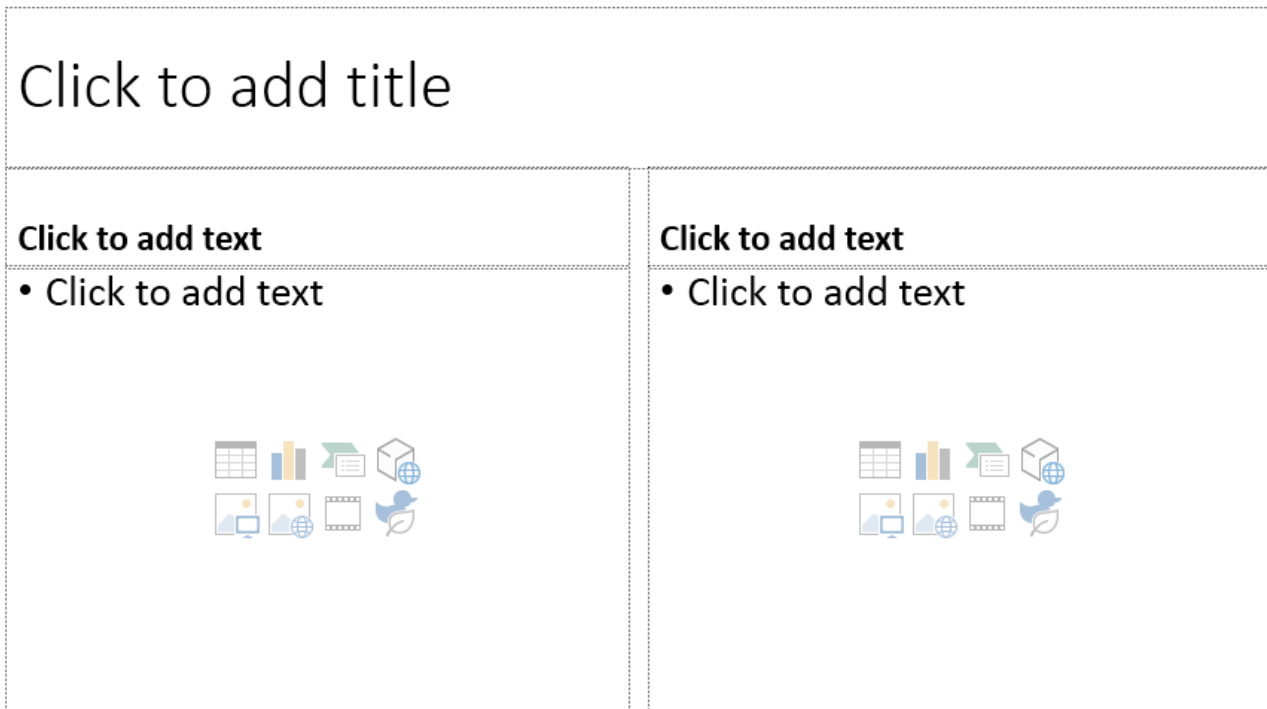
- A. MATCH is used to match an additional element (month)  
You can use INDEX in place of MATCH.
- B. MATCH is used to match the VLOOKUP data with G2.  
There is no replacement of MATCH



- C. MATCH is used to match the VLOOKUP data with G2.  
You can use INDEX in place of MATCH

**Answer: C**

- 5. Which of the given options tells the purpose of the PowerPoint layout given below?



- A. Comparison
- B. Two content
- C. Content with caption
- D. Picture with caption

**Answer: A**

- 6. Identify the view type in MS Powerpoint which will lead to the screen given below.



Presentation12 - PowerPoint

←

Home

New

Open

---

**Info**

Save

Save As

History

Print

Share

Export

Close

---

Account

Options

## Info

### Presentation12

My Documents

Upload
Share
Copy path
Open file location

#### Protect Presentation

Control what types of changes people can make to this presentation.

#### Inspect Presentation

Before publishing this file, be aware that it contains:

- Document properties, author's name and cropped out image data
- Content that people with disabilities are unable to read

#### Manage Presentation

There are no unsaved changes.

Properties ▾

Size

Slides

Hidden slides

Title

Tags

Categories

Related Dates

Last Modified

Created

Last Printed

Related People

Author

Last Modified By

Related Document

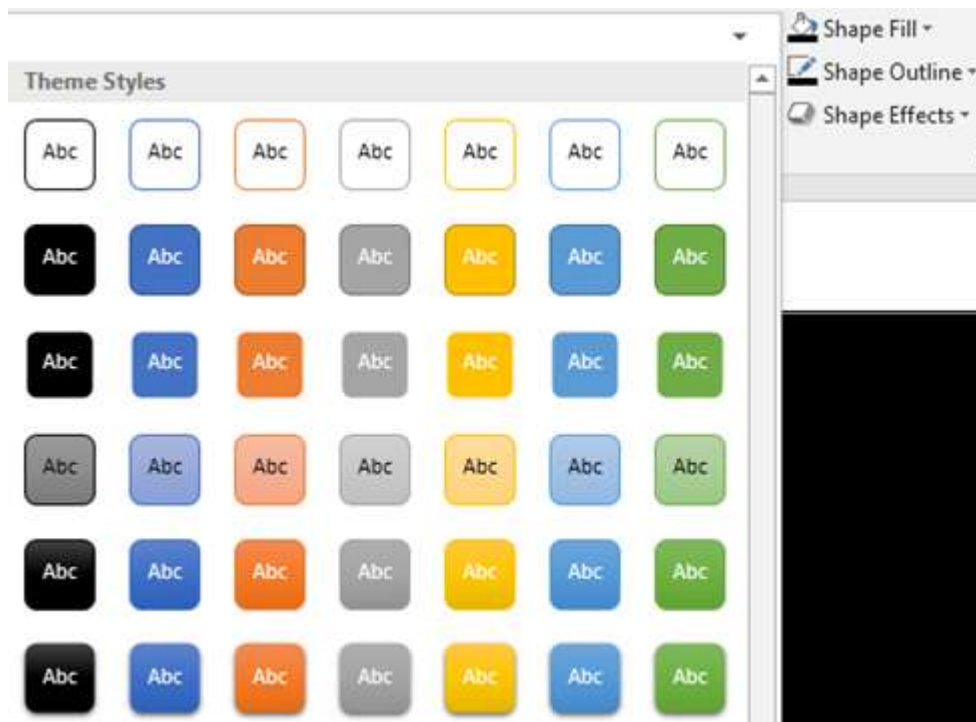
Open File Location

[Show All Properties](#)

- A. Slide Show View
- B. Normal View
- C. Outline View
- D. Backstage View

**Answer: D**

7. Consider a scenario in which you have a flowchart in your slide that has different themes for the various shapes in the flow chart. Which tab will have different theme styles?



- A. Design Tab
- B. Animation Tab
- C. Insert Format Tab
- D. Drawing Tools Format Tab

**Answer: A**

8. Consider the following lines of text.

- 1) Good morning
- 2) Welcome to the MS-word
- 3) Promote and demote list item

Which of the following option in MS Word is used to move the text "Welcome to the MS-word" to one level right?

Assume that, the cursor is before the letter "W".

- A. tab
- B. Shift + tab
- C. Alt + Shift + UpArrow
- D. Alt + tab

**Answer: B**

9. What is the purpose of the icon shown in the image below?






This icon is available in the Layout tab ("Page Layout" tab in the previous version) of MS Word.


- A. To change the page size
- B. Align the edges of multiple selected objects
- C. To change the character attributes
- D. To change the orientation of the document to Landscape or Portrait

**Answer: A**

10. An email needs to be sent to the people mentioned in the screenshot given below.

To  xyz@gmail.com ×  lmn@gmail.com ×

Cc  lmo@gmail.com ×

Bcc  x1y@gmail.com ×

Select the incorrect statement from the given options

- A. x1z@gmail.com can be seen as a recipient by other recipients
- B. xyz@gmail.com can be seen as a recipient by other recipients.
- C. lmn@gmail.com can be seen as a recipient by other recipients.
- D. lmo@gmail.com can be seen as a recipient by other recipients.

**Answer: A**

11. Joe is working on an application project which can be used to edit texts, format, input pages or prepare a report, and can also save and print the entire document. Which of the given applications is the one related with the above mentioned scenario?

- A. Data Management
- B. Word Processing
- C. Operating System
- D. Managing System

**Answer: B**



## Accenture Fundamentals of Networking, Security and Cloud

---

1. Which of the following statements are true?

Statement I: Broad Network Access allows the use of heterogeneous clients.

Statement II : Broad Network Access allows customer to use resource without the knowledge of exact location of the resource.

Statement III : Resource pooling allows user to provide to multiple clients using the same physical equipment

- A. All the statement are true
- B. Except statement II, all are true
- C. Only statement II and III are true
- D. Except statement I, all are true

**Answer: A**

2. Which of the following is/are important for serving time sensitive manufacturing application?

- A. None of the mentioned options
- B. Latency
- C. both Network bandwidth and latency
- D. Network bandwidth

**Answer: C**

3. Which of the following is/are the common steps performed in every round during encryption and decryption?

- A. Inverse mix columns
- B. Add round key
- C. Inverse shift rows
- D. Substitute bytes

**Answer: B, D**

4. What is the size in bytes of Group Temporal Key in case of CCMP?

- A. 5
- B. 32
- C. 13
- D. 16

**Answer: D**

5. Which of the following function for collision avoidance before transmission is optional?

- A. both Distributed Coordination Function and Point Coordination Function
- B. Point Coordination Function
- C. None of the mentioned options
- D. Distributed Coordination Function

**Answer: B**

6. Which of the following is/are the applications of ssh-keygen?



- A. Authenticating hosts
- B. All of the mentioned options
- C. Single sign-on
- D. Automated logins

**Answer: B**

7. Which of the following options is correct based on the below statements?

Statement I : SSH keys can be used to hide backdoors.

Statement II : SSH keys are changed on regular basis.

Statement III: SSH keys cannot be kept offline.

Statement IV : SSH keys replaced the insecure .rhosts authentication that was vulnerable to active network-level attacks.

- A. Except Statement III, all are true
- B. Only I and IV are true
- C. All Statements are true
- D. Except Statement II, all are false

**Answer: C**

8. Which of the following is considered as the unsolicited commercial email?

- A. Virus
- B. Malware
- C. Spam
- D. All of the above

**Answer: C**

9. Which of the following has many features that are now known as cloud computing?

- A. Web Service
- B. Softwares
- C. All of the mentioned
- D. Internet

**Answer: D**





## Accenture Coding

### 1. Edward's Birthday

#### Problem statement

It is Edward's birthday today. His friends have bought him a huge circular cake.

Edward wants to find out the maximum number of pieces he can get by making exactly N straight vertical cuts on the cake.

Your task is to write a function that returns the maximum number of pieces that can be obtained by making N number of cuts.

**Note:** Since the answer can be quite large, modulo it by 1000000007

#### Input Specification:

**input1:** An integer N denoting the number of cuts

#### Output Specification:

Return the maximum number of pieces that can be obtained by making N cuts on the cake

#### Example:

Input	Output	Explanation
1	2	Given the above scenario, if we make 1 cut on the cake, the maximum number of pieces of cake we obtain is 2 and $2\%1000000007=2$ . Hence, 2 is returned as output.
5	16	Given the above scenario, if we make 5 cuts on the cake, the maximum number of pieces of cake we obtain is 16 and $16\%1000000007=16$ . Hence, 16 is returned as output.

#### Code Solution in Python

```
class Solution:
    def maximumCuts(self, n):
        M = 1000000007
        num=((n*(n+1))//2) +1
        return num % M
```

```
if __name__ == '__main__':
    n = int(input())
    ob = Solution()
    ans = ob.maximumCuts(n)
```



```
print(ans)
```

### Code Solution in JAVA

```
import java.util.*;
import java.lang.*;
import java.io.*;

class Main
{
    public static void main (String[] args) throws IOException
    {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        Solution ob = new Solution();
        System.out.println(ob.maximumCuts(n));
    }
}

class Solution
{
    static long maximumCuts(int n)
    {
        long M = 1000000007;
        if(n==1 )
        {
            return 2;
        }

        if(n==0)
        {
            return 1;
        }

        return (n + maximumCuts(n-1))%M;
    }
}
```

### Code Solution in C++

```
#include<bits/stdc++.h>
using namespace std;

int maximumCuts(int n){
    const unsigned int M = 1000000007;
    int sum=1;
    while(n!=0)
```



```
        sum+=n--;\n        return sum%M;\n    }\n\nint main(){\n\n    int n;\n    cin >> n;\n    int ans = maximumCuts(n);\n    cout << ans << "\\n";\n\n    return 0;\n}
```

### Code Solution in C

```
#include<stdio.h>\n\nint maximumCuts(int n){\n    const unsigned int M = 1000000007;\n    int sum=1;\n    while(n!=0)\n        sum+=n--;\n    return sum%M;\n}\n\nint main(){\n    int n;\n    scanf("%d",&n);\n    int ans = maximumCuts(n);\n    printf("%d\\n",ans);\n\n    return 0;\n}
```

## 2. Regions on a Plane

### Problem statement

Mr. Professor is a great scientist, but he is not able to find a solution to one problem. There are  $N$  straight lines that are not parallel, and no three lines go through the same point. The lines divide the plane into  $M$  regions. Write a function to find out the maximum number of such regions he can get on the plane.

### Input Specification:

**input1:** An integer  $N$  representing the number of straight lines ( $0 \leq N \leq 100$ )

### Output Specification:



Return the maximum number of regions

**Example:**

Input	Output	Explanation
2	4	Given the above scenario, 2 lines divide the plane into 4 regions. Therefore, 4 is returned as the output.
3	7	Given the above scenario, 3 lines divide the plane into 7 regions. Therefore, 7 is returned as the output.

**Code Solution in Python**

```
class Solution:
    def maxRegions(self, n):
        num = n * (n + 1) // 2 + 1
        return num
```

```
if __name__ == '__main__':
    n = int(input())
    ob = Solution()
    ans = ob.maxRegions(n)
    print(ans)
```

**Code Solution in JAVA**

```
import java.util.*;
import java.lang.*;
import java.io.*;

class Main
{
    public static void main (String[] args) throws IOException
    {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        Solution ob = new Solution();
        ob.maxRegions(n);
    }
}
```

```
class Solution
{
```



```
public static void maxRegions(int n)
{
    int num;
    num = n * (n + 1) / 2 + 1;
    System.out.println(num);
}
}
```

#### Code Solution in C++

```
#include<bits/stdc++.h>
using namespace std;

void maxRegions(int n)
{
    int num;
    num = n * (n + 1) / 2 + 1;
    cout << num;
}

int main(){
    int n;
    cin >> n;
    maxRegions(n);
    return 0;
}
```

#### Code Solution in C

```
#include<stdio.h>

void maxRegions(int n)
{
    int num;
    num = n * (n + 1) / 2 + 1;
    printf("%d",num);
}

int main()
{
    int n;
    scanf("%d",&n);
    maxRegions(n);
    return 0;
}
```



One of Accenture drive concluded on **8-September-2021** with the second slot happening on for the students from **1:00 PM to 2:30 PM**. This document details the **Slot Analysis** as well as **Answers to Questions** that students recollected post the test.

**Disclaimer:**

1. The questions showcased in this document have been recreated through memory, thanks to test-takers who recalled the questions post their test.
2. The questions repetition between the slots is expected to be very miniscule.
3. Please use this document as an indicative preparation tool, rather than exact replica of the questions that appeared or can appear in the Accenture Online Test.

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Accenture Common Applications and MS Office Questions and Answers	27
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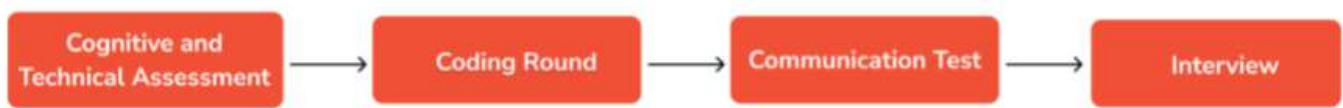
## Accenture Roles and Packages

This year Accenture recruitment for 2022 pass-outs has come up with two roles with exciting packages. They are as follows.

- **Associate Software Engineer (4.5 LPA)**
- **Advanced Associate Software Engineer (6.5 LPA)**



## Accenture Recruitment Process



## Accenture Online Test Pattern

Round	Round Name	#Qs	Sections Name	#Qs in Sections	Duration (In Mins)
1	Cognitive and Technical Assessment	90	English Ability	17	90
			Critical Reasoning and Problem Solving	18	
			Abstract Reasoning	15	
			Common Applications and MS Office	12	
			Pseudocode	18	
			Networking Security and Cloud	10	
2	Coding	2	-	-	45

## Accenture Online Test Assessment Platform

Assessment Platform	Intra - sectional Navigation	Sectional Navigation Marking Scheme	Marking Scheme
AON-CoCubes/ Wheebox/ Mettl/HirePro	Allowed	Allowed	No Negative Marking



## Accenture Online Test Syllabus

Section	Topic
English Ability	<ul style="list-style-type: none"> <li>• Reading Comprehension</li> <li>• Articles</li> <li>• Prepositions</li> <li>• Sentence Correction,</li> <li>• Speech and Voice</li> <li>• Tenses, Synonyms</li> <li>• Antonyms, Spellings</li> <li>• Idioms and Phrases</li> </ul>
Critical Reasoning and Problem solving	<ul style="list-style-type: none"> <li>• Critical reasoning</li> <li>• Flowcharts</li> <li>• Data arrangements</li> <li>• Data sufficiency</li> <li>• Syllogisms</li> </ul>
Abstract Reasoning	<ul style="list-style-type: none"> <li>• Coding and Decoding</li> <li>• Visual Reasoning</li> <li>• Odd man out</li> <li>• Series</li> </ul>
Pseudocode	<ul style="list-style-type: none"> <li>• Sequence</li> <li>• While</li> <li>• Repeat-until</li> <li>• For</li> <li>• If-then-else</li> <li>• Case</li> </ul>
Common Applications and MS Office	<p><b>MS Word</b></p> <ul style="list-style-type: none"> <li>• Creating, editing, saving and printing text documents</li> <li>• Font and paragraph formatting</li> <li>• Simple character formatting</li> <li>• Inserting tables, smart art, page breaks</li> <li>• Using lists and styles</li> <li>• Working with images</li> <li>• Using Spelling and Grammar check</li> <li>• Understanding document properties</li> <li>• Mail Merge</li> </ul> <p><b>MS Excel</b></p>





	<ul style="list-style-type: none"> <li>● Spreadsheet basics</li> <li>● Creating, editing, saving and printing spreadsheets</li> <li>● Working with functions &amp; formulas</li> <li>● Modifying worksheets with color &amp; autoformats</li> <li>● Graphically representing data: Charts &amp; Graphs</li> <li>● Speeding data entry: Using Data Forms</li> <li>● Analyzing data: Data Menu, Subtotal, Filtering Data</li> <li>● Formatting worksheets</li> </ul> <p><b>MS Power Point</b></p> <ul style="list-style-type: none"> <li>● Securing &amp; Protecting spreadsheets</li> <li>● Opening, viewing, creating, and printing slides</li> <li>● Applying auto layouts</li> <li>● Adding custom animation</li> <li>● Using slide transitions</li> <li>● Graphically representing data : Charts &amp; Graphs</li> <li>● Creating Professional Slide for Presentation.</li> </ul>
<p>Network Security and Cloud</p>	<ul style="list-style-type: none"> <li>● Data and Computer Communication Networks</li> <li>● Mobile &amp; Wireless Networks</li> <li>● Cryptography and Network Security</li> <li>● Database Security</li> <li>● Software Security</li> <li>● Biometric Security</li> </ul>
<p>Coding</p>	<ul style="list-style-type: none"> <li>● Data types</li> <li>● Operators</li> <li>● Arrays</li> <li>● Strings</li> <li>● Decision Making</li> <li>● Looping</li> <li>● Functions</li> </ul> <p>Scenario-based questions</p>



## Accenture Slot Analysis

- Difficulty level of Pseudocode questions ranged from easy to moderate.
- Difficulty level of English Ability questions ranged from easy to moderate.
- Difficulty level of Critical Reasoning and Problem Solving ranged from moderate to difficult.
- Most of the questions in Critical Reasoning and Problem Solving were from Data Arrangement, Critical Reasoning and Flow Chart.
- Most of the questions in Abstract Reasoning section were from Number Series,, Visual Reasoning and Coding and Decoding.
- Basic questions from MS Word, MS Excel and Computer Applications were asked in Common Applications and MS Office section.
- Overall Test Difficulty level settles around MODERATE.



## Accenture English Ability

1. Find out which underlined part of the sentence below has an error and mark the option accordingly. Butterflies are considered as the main agent of transferring pollen grains. Sometimes, this gives rise to different species of flowers, a true fascination unknown to the science world.
- A. Sometimes, this gives rise to different  
B. Considered as the main  
C. Of transferring  
D. Unknown to the science world

**Answer: B**

Read the passage given below and answer the questions that follow.

Dogs, often hailed as humans' best friends, have been the topic of many scientific studies looking into how they might boost our well-being. It is likely that humans and dogs have shared a special bond of friendship and mutual support ever since at least the Neolithic period — but why has this bond been so long-lasting?

A recent study showed that owning a dog reduces a person's risk of premature death by up to a third. Also, researchers at the University of Harvard in Cambridge, MA, suggest that dog owners have a lower risk of heart disease. Dogs can strengthen our health not just as we grow older, but also much, much earlier than that: before we are even born. Research published last year suggests that children who were exposed to dogs while still in the womb — as their mothers spent time around dogs during pregnancy — had a lower risk of developing eczema in early childhood. When we interact with dogs, our oxytocin levels shoot up. Since this is the hormone largely responsible for social bonding, this hormonal "love injection" boosts our psychological well-being.

Previous studies analyzed in the review have revealed that dog owners have more positive social interactions, and that the presence of canine friends makes people more trusting.

Moreover, dogs appear to reduce symptoms of depression and render people more resilient to stress. That is why dogs are often used as therapy animals.

2. Choose the option that is **closest** in meaning to the word '**resilient**' as used in the passage
- A. Stable  
B. Unadaptable  
C. Immune  
D. Determined
3. The passage is primarily concerned with:
- A. Emphasizing how building a bond with dogs can help us in health matters  
B. Outlining the relationship of humans and dogs.  
C. Highlighting that dogs are used in medical aid now-a-days.  
D. Listing the benefits of owing a dog and how to establish a bond with them.

**Answer: A**

4. The author feels that the owing a dog affects the mental health:
- A. Quickly  
B. Positively



- C. Emphatically
- D. Negatively

**Answer: B**

5. Mark the option which is closest in meaning to the word given below.

COHERENCE

- A. Fighting
- B. Unity
- C. Companionship
- D. Slowness

**Answer: B**

6. Mark the option containing the word that is opposite in meaning to the underlined word given below.

Roger is a consummate player who earned over nine million dollars in the tournament last year.

- A. Incompetent
- B. Best
- C. Slow
- D. Professional

**Answer: A**

7. Choose the best replacement for the underlined part of the sentence.

The match was expected to be won by India as the players were very active on the field.

- A. The India was expected to win the match
- B. The match was being expected to be won by the India
- C. It is being expected by the India to win the match
- D. India was expected to win the match

**Answer: D**

8. Choose the best replacement for the underlined part of the sentence.

You should always keep away from bad company.

- A. Always keep away
- B. Keep away always
- C. Keep yourself away always
- D. Always keeps away

**Answer: C**

9. The sentences given below from a coherent passage when arranged logically. Choose the option which gives the correct sequence.

1. The practice is widespread: honeybees are kept in large cities and villages, on farms and rangelands, in forests and deserts, Arctic and Antarctic from the Equator to even the frozen poles of Earth.
2. This has helped many people to improve their economic stability by giving them a secondary source of income.
3. Bee - keeping is caring for and management of colonies of honeybees.
4. They are kept for their honey, wax, and also their services as pollinators of fruit and vegetable blossoms, or even as a hobby.

- A. 1 3 2 4
- B. 1 3 4 2
- C. 3 2 1 4
- D. 3 4 1 2

**Answer: C**

10. Choose the best replacement for the underlined part of the sentence.

Sam and Tim's wife are coming this afternoon.

- A. Sam's and Tim's wives
- B. Sam and Tim's wives
- C. Sam's and Tim's wife
- D. Sam's and Tim wife

**Answer: A**



## Accenture Critical Reasoning and Problem Solving

### 1. Statements:

- I. Some apples are guavas.
- II. All apples are oranges.
- III. No orange is a papaya.
- IV. All papayas are guavas.

### Conclusions:

- I. Some papayas are apples.
  - II. Some oranges are papayas.
  - III. Some guavas are oranges.
- A. Only conclusion III follows
  - B. Either conclusion I or conclusion III follows
  - C. None follow
  - D. Only conclusion I follows

**Answer: A**

### 2. In the following question, the symbols +, -, \*, /, and \$ are used with the following meanings illustrated.

'X \* Y' means 'X is either greater than or equal to Y'.

'X - Y' means 'X is neither greater than nor smaller than Y'.

'X \$ Y' means 'X is smaller than Y'.

In the following question assuming the given statements to be true, find out which of the three conclusions I, II and III given below the is/are definitely true and mark your answer accordingly.

### Statements:

- I.  $M + J$
- II.  $J/Y$
- III.  $Y\$K$
- IV.  $K - N$

### Conclusions:

- I.  $K * J$
  - II.  $J + N$
  - III.  $K \$ M$
- A. Only conclusion I and conclusion III follow
  - B. None follow
  - C. Only conclusion I and conclusion II follow
  - D. Only conclusion II and conclusion III follow

**Answer: B**

### 3. Read the following argument and mark which of the following assumptions is made in the argument. More than one billion years' worth of rocks have gone missing from the geologic record of Grand Canyon.

- A. Earth has transitioned from an older setting to the modern one during these one billion years.
- B. None of the mentioned options.
- C. The western half of the Grand Canyon has gone through a very different geologic contortion compared to the eastern half.
- D. Series of Faulting events in that region possibly tore up the earth around the Canyon causing rocks and sediments to wash away in the ocean.



**Answer: D**

4. Mark the option containing the sentence that strengthens the argument given below.

Argument: People generally wear light colour clothes in summer.

- A. They are easy to wash and easy to dry.
- B. Light colour clothes are bad absorber of light.
- C. These light colour clothes are thick and warm.
- D. They are readily and cheaply available in the summer.

**Answer: B**

5. The question given below is followed by two statements numbered I and II. Determine if the statements are, individually or together, sufficient to answer the question.

**Question:** How many questions did Jacob attempt in the English test?

**Statements:**

- I. There were 35 questions in the test.
  - II. He got 25 marks in the test, in which every correct answer fetched 1 mark, for every unattempted questions fetched 0 mark, and for every incorrect answer  $\frac{1}{3}$  mark was deducted from the total.
- A. Each statement alone is sufficient to answer the question.
  - B. Only one of the statements, alone, is sufficient to answer the question but other statement is not.
  - C. Statements I and II together are not sufficient to answer the question asked and additional data to the problem is needed.
  - D. Both statements I and II together are sufficient to answer the question asked but neither statement alone is sufficient.

**Answer: D**

**Direction for Q6 to Q9:** Read the following information given below and answer the questions that follow:

Six friends - Sheldon, Jack, Justin, Bruce, Peter, and Nicholas are sitting around a circular table, not necessarily in the same order. All of them are facing the center.

- I. Peter is sitting exactly opposite to Jack.
  - II. Justin is the only person sitting between Bruce and Peter.
  - III. Sheldon is sitting to the immediate left of Jack.
6. Who among the following are not the immediate neighbours?
- A. Bruce and Justin
  - B. Nicholas and Peter
  - C. Nicholas and Justin
  - D. Jack and Sheldon

**Answer: C**

7. Who is sitting second to the right of Peter?

- A. Peter
- B. Justin
- C. Jack
- D. Sheldon

**Answer: D**



8. Who is sitting to the opposite of Sheldon?

- A. Bruce
- B. Justin
- C. Peter
- D. Nicholas

**Answer: B**

9. Which of the following is false regarding the position of Jack?

- A. Jack is sitting third of the left of Nicholas.
- B. Jack is sitting second to the right of Nicholas.
- C. Jack is sitting between Bruce and Sheldon.
- D. Jack is sitting to the immediate left of Bruce

**Answer: A**

**Direction for Q10 to Q13:** Read the following information given below and answer the questions that follow:

There were six participants - M, N, O, P, Q and R in the final of coffee making competitions. The six participants belong to six different locations - Delhi, Mumbai, New York, Paris, Tokyo and London. David, the judge of this competition, rated the coffee prepared by the participants on a scale of 1 to 10 giving a unique rating to each participant.

- I. R was from London.
- II. Participants from New York got the highest ranking, but was not O.
- III. Only two participants got ratings in even numbers.
- IV. The rating of O was double the rating of Q.
  
- V. N got the minimum rating and the rating was an even number.
- VI. O got a higher rating than M.

10. What was the second highest rating given?

- A. 7
- B. 8
- C. 9
- D. 6

**Answer: A**

11. Who belongs to New York?

- A. P
- B. Q
- C. Cannot be determined
- D. M

**Answer: A**

12. What was the rating of coffee prepared by Q?

- A. 3
- B. 2
- C. 6





D. 5

**Answer: A**

13. Which of the following statements is definitely true?

- A. P got a rating of 10
- B. M got a rating of 5
- C. O belongs to Mumbai
- D. Q belongs to Paris

**Answer: B**

**Direction for Q14 to Q15:** The statement given below is followed by two conclusions. Assume the statement is true, even if it contradicts commonly known facts, and determine the conclusion/s that logically follow/s from the statement.

14. **Statement:** Social gatherings could turn into COVID super spreader events if safety norms are flouted.

**Conclusions:**

- I. The coming festive season could be dangerous if safety norms are flouted and lead to a surge in COVID cases.
- II. Vaccine provides over 95% protection against severe disease and hospitalisation.

- A. Both conclusion I and conclusion II follow
- B. Only conclusion I follows
- C. Only conclusion II follows
- D. Neither conclusion I nor conclusion II follows

**Answer: B**

15. **Statement:**

Government has started to offer incentives and subsidies on Electric Vehicles.

**Conclusions:**

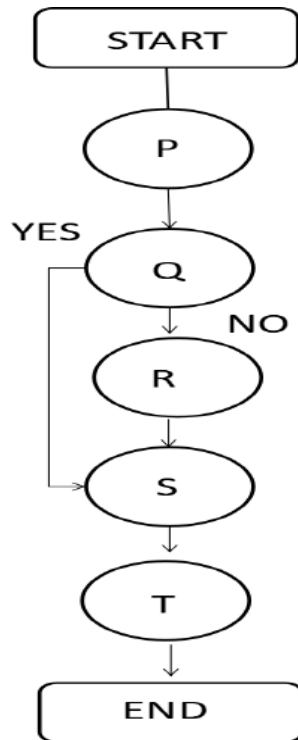
- I. Pollution can be mitigated by the use of electric vehicles.
- II. Electric vehicles are not pocket friendly as compared to conventional petrol/diesel vehicles.

- A. Both conclusion I and conclusion II follow
- B. Only conclusion I follows
- C. Neither conclusion I nor conclusion II follows
- D. Only conclusion II follows

**Answer: D**

**Direction for Q16 to Q18:** Study the flow given in the following diagram and answer the questions that follow.

Box No	1	2	3	4	5	6	7	8	9	10
	-4	0	-1	2	-2	4	-3	6	-4	8



P-> Add: (number in Box 9)+(number in Box 6). Put the result in Box 3.

Q-> Is (number in Box 2) < (number in Box 3)?

R-> Divide : (number in Box 1) / (number in Box 4). Put the result in Box 10.

S-> Add: (number in Box 10) + (number in Box 5). Put the result in Box 8.

T-> Multiply: (number in Box 8) \* (number in Box 4). Put the result in Box 7.

16. At the end of the flowchart which of the following boxes will have the lowest value?

- A. Box 8
- B. Box 7
- C. Box 2
- D. Box 10

**Answer: B**

17. How many boxes have positive integral values at the end of flowchart?

- A. 2
- B. 4
- C. 6
- D. 0

**Answer: A**

18. Find the value of {(number in Box 10) + (number in Box 6)} at the end of the flowchart.

- A. 4
- B. -2
- C. 2
- D. -4

**Answer: C**

**Accenture Abstract Reasoning**

1. Mark the odd one out from the given options.

- A. BDG
- B. FHK
- C. OQT
- D. NPT

**Answer: D**

2. Mark the option that best completes the comparison.

Sun : Solar System :: Brakes : ?

- A. Car
- B. Office
- C. Recess
- D. Time

**Answer: A**

3. Mark the option that best completes the comparison

Rainbow: Sky :: Movie :?

- A. Car
- B. Picture
- C. Theatre
- D. Actor

**Answer: C**

4. Find the missing term in the series given below:

12, 20, 33, 51, ?, 102

- A. 69
- B. 82
- C. 74
- D. 78

**Answer: C**

5. Find the missing term in the series given below:

112, 111, 107, 98, ?, 57

- A. 83
- B. 79
- C. 82
- D. 87

**Answer: C**

6. Find the missing term in the series given below:

CEG, PSU, KMO, XAC, SUW, ?

- A. FIK
- B. EHJ
- C. FHJ



D. JKL

Answer: A

7. If in a certain code language, "PACEMAKING" is coded as "UEFGNFOLPH", then how would "KABALISTIC" be coded in the same language?

- A. PEECMNWWKD
- B. PEEDMNWYKD
- C. OEECNMWWKE
- D. PEDCNMWWKD







Answer: A

8. The Problem Figure given-below has the properties of a Latin Square. Each blank cell in the Problem Figure will contain an item based on the following properties of the Latin square:





1. A row or column never contains the same item twice
2. Same items are there in every row
3. Same items are there in every column

From the items given in the Response Figure, choose the one that should come in place of "?" in the Problem Figure.

Problem Figure:

Response Figure:

-   
(1)
-   
(2)
-   
(3)
-   
(4)

- A. (2)
- B. (1)
- C. (3)
- D. (4)

Answer: B

9. Mark the option that most logically completes the following sequence.

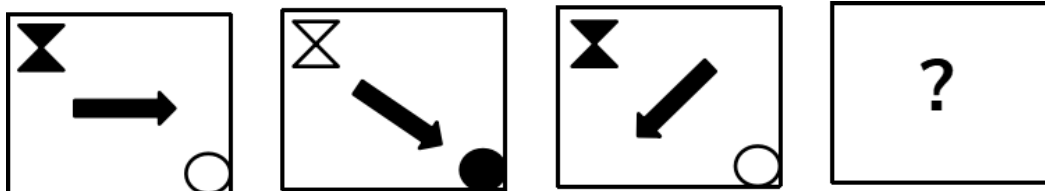


		?

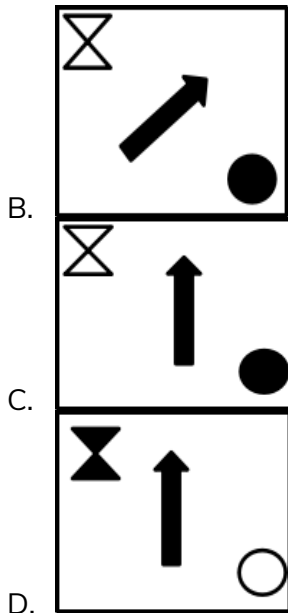
- A.
- B.
- C.
- D.

Answer: D

1. Mark the option that most logically completes the following sequence.



- A.



Answer: C

2. The Problem Figure given-below has the properties of a Latin Square. Each blank cell in the Problem Figure will contain an item based on the following properties of the Latin square:

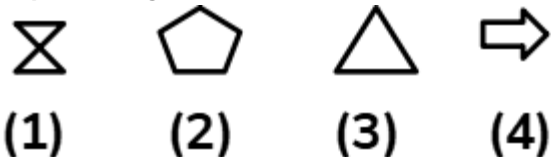
1. A row or column never contains the same item twice
2. Same items are there in every row
3. Same items are there in every column

From the items given in the **Response Figure**, choose the one that should come in place of “?” in the **Problem Figure**.

**Problem Figure:**

?			

**Response Figure:**



- A. (3)
- B. (2)
- C. (4)
- D. (1)

Answer: B



3. Mark the option that best completes the comparison.

Tree : Seed :: Cow : ?

- A. Calf
- B. Colt
- C. Milk
- D. Leather

**Answer: A**

4. If in a certain code language, button is called shirt, shirt is called shampoo, shampoo is called brush, brush is called toothpaste, and toothpaste is called mat, then which among the following is used to wash hair?

- A. Mat
- B. Brush
- C. Toothpaste
- D. Shampoo

**Answer: B**

5. If in a certain code language, button is called shirt, shirt is called shoe, shoe is called sock, sock is called washing soap, and washing soap is called mat, then which among the following is used to wash a dirty shirt?

- A. Cloth
- B. Washing Soap
- C. Socks
- D. Mat

**Answer: D**

## Accenture Pseudocode

1. What will be the output of the following pseudocode?

```
1 Integer a, b, c
2 Set a=2, b=6, c=8
3 a=(10+9)+c
4 if((c+b)>(a-c))
5     a=b+c
6     b=b+b
7 End if
8 Print a+b+c
```

- A. 23  
B. 41  
C. 48  
D. 58

Answer: B

2. What will be the output of the following pseudocode for a=0, b=2, c=10?

```
1
2 Integer funn(Integer a, Integer b, Integer c)
3     b=7+a
4     a=(a+c)+a
5     b=(b+b)+c
6     c=1+b
7     return a+b+c
8 End function funn( )
```

- A. 59  
B. 68  
C. 70  
D. 39

Answer: A

3. What will be the output of the following pseudo code?

```
1 Integer pp, qq, rr
2 Set pp=0, qq=6, rr=7
3 pp=rr+pp
4 pp=(rr&4)^rr
5 if((qq&pp&rr)<(rr&qq))
6     if((qq^pp)<(rr+qq))
7         rr=(3+1)^pp
8     End if
9 End if
10 Print pp+qq+rr
```

Note:

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.



$\wedge$  is the bitwise OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 29
- B. 18
- C. 10
- D. 16

**Answer: D**

4. What will be the output of the following pseudo code?

```

1 Integer p,q,r
2 Set p=9, q=6, r=10
3 if((q^p^r)>(r^q))
4     r=(11&12)+q
5 End if
6 if((q^6^8)>(p^4))
7     p=(r+3)&r
8 End if
9 Print p+q+r

```

**Note:**

$\&$ : bitwise AND - The bitwise AND operator ( $\&$ ) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

$\wedge$  is the bitwise OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 20
- B. 27
- C. 25
- D. 36

**Answer: C**

5. What will be the output of the following pseudocode?

```

1 Integer pp,qq,rr
2 Set pp=1, qq=2, rr=8
3 if((5+8)<(7+qq))
4     if((qq+pp)<(pp=qq))
5         rr=(rr+6)+rr
6         rr=(qq+pp)+pp
7     End if
8     rr=rr+pp
9 Else
10    if((pp+qq-rr)<(rr+pp))
11        pp=pp+rr
12    End if
13    rr=(pp&rr)+pp
14 End if
15 Print pp+qq+rr

```

**Note:**

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 35
- B. 49
- C. 19
- D. 28

**Answer: D**

6. What will be the output of the following pseudo code?

```

1 Integer p, q, r
2 Set p=8, q=4, r=5
3 if((r+q) < (q-r) || p>q)
4     q=(q&8) &r
5 End if
6 Print p+q+r

```

**Note:**

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

||: Logical OR - The logical OR operator (||) returns the Boolean value TRUE(or 1) if either or both operands is TRUE and FALSE(or 0) otherwise

- A. 17
- B. 10
- C. 23
- D. 13

**Answer: D**

7. What will be the output of the following pseudo code for a=1,b=2,c=9?

```

1 Integer funn( Integer a, Integer b, Integer c)
2     for(each c from 5 to 9)
3         if((b+5)>(a-b))
4             a=(b+5)^a
5         End if
6         b=5^c
7     End for
8     return a+b

```

Note- ^ is the bitwise OR operator that compares each bit of the first operand to the corresponding bit of the second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 26
- B. 55
- C. 40

D. 44

Answer: C

8. What will be the output of the following pseudo code for a=2, b=6, c=5?

```

1 Integer funn(Integer a, Integer b, Integer c)
2     if((a&7&b) >(6&a))
3         b=(12+7) +a
4         c=(12+4) +b
5     End if
6     if((2+3)<(5+b))
7         b=(b+3)+c
8         a=(9&10)+c
9     End if
10    return a+b+c

```

Note-&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

A. 33

B. 32

C. 41

D. 28

Answer: B

9. What will be the output of the following pseudocode?

```

1 Integer p,q,r
2 Set p=0, q=8, r=10
3 if(p<r && (p&q)<r)
4     q=4&q
5     p=(q+3)^r
6 End if
7 r=(q&1)+p
8 q=(q^9)+p
9 Print p+q+r

```

Note-&&: Logical AND - The logical AND operator (&&) returns the Boolean value true(or 1) if both operands are true and return false (or 0) otherwise.

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

A. 45

B. 36

C. 31

D. 38

Answer: B



10. What will be the output of the following pseudocode?

```

1 Integer p,q,r
2 Set p=1, q=4, r=7
3 p=(1+8)+q
4 r=(p&r)+r
5 r=q+q
6 if((q+r)<(r-q) && 7>p)
7     p=r+q
8     p=(p+11)+q
9 End if
10 Print p+q+r
11

```

Note-&&: Logical AND - The logical AND operator (&&) returns the Boolean value true(or 1) if both operands are true and return false (or 0) otherwise.

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 34
- B. 20
- C. 32
- D. 25

**Answer: D**

11. What will be the output of the following pseudocode?

```

1 Integer p,q,r
2 Set p=6, q=3, r=9
3 if((p&r)<(q-p))
4     p=(2^7)+r
5     p=(p+3)^r
6     q=4^q
7 End if
8 r=(r+p)&q
9 Print p+q+r

```

Note- &: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 10
- B. 13
- C. 12
- D. 19

**Answer: C**



12. What will be the output of the following pseudocode?

```
1 Integer pp,qq,rr
2 Set pp=8, qq=4, rr=5
3 for(each rr from 4 to 5)
4     if((rr-pp+qq)<(qq+rr))
5         pp=(5+5)+qq
6     End if
7     pp=(rr+qq)+pp
8 End for
9 Print pp+qq
```

- A. 22
- B. 32
- C. 27
- D. 45

Answer: C

13. What will be the output of the following pseudocode?

```
1 Integer p,q,r
2 Set p=4, q=2, r=4
3 for(each r from 5 to 6)
4     q=(r+r)+q
5     if((p+r-q)<(6-p))
6         p=p+q
7         q=12+r
8     End if
9 End for
10 Print p+q
```

- A. 58
- B. 34
- C. 45
- D. 49

Answer: C

14. What will be the output of the following pseudocode?

```
1 Integer a,b,c
2 Set a=1, b=2, c=9
3 if((b+c)>(c-b))
4     c=a+a
5 End if
6 if((7+3)<(6+a))
7     b=12+a
8 End if
9 Print a+b+c
```

- A. 5
- B. 1
- C. 9
- D. 20

Answer: A

15. What will be the output of the following pseudo code for a=6, b=8, c=4?

```

1
2 Integer funn(Integer a, Integer b, Integer c)
3   if((c+a+b)<(b+c))
4     if((c^b^a)<(b+a+c))
5       if ((b+a-c)<(6-b))
6         c=(c&11)+a
7     End if
8   End if
9   End if
10  a=1&c
11  c=a^a
12  return a+b+c

```

Note- &: bitwise AND - - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 11
- B. 5
- C. 27
- D. 8

Answer: D

16. What will be the output of the following pseudocode for a=3, b=4, c=4?

```

1
2 Integer funn (Integer a, Integer b, Integer c)
3   b=c^c
4   c=(12+8)+c
5   if((b&a)<a && 2>a)
6     b=4+b
7     b=(9+3)+b
8   Else
9     a=3^c
10  End if
11  return a+b+c

```

Note- &&: Logical AND - The logical AND operator (&&) returns the Boolean value true(or 1) if both operands are true and return false (or 0) otherwise.

&: bitwise AND - - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

$\wedge$  is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 51
- B. 53
- C. 56
- D. 47

**Answer: A**

17. What will be the output of the following pseudo code for a=1, b=6, c=5?

```
1
2 Integer funn(Integer a, Integer b, Integer c)
3   for (each c from 4 to 5)
4     b=c+b
5     if((4-c-a)<(a+b))
6       b=(b+8)+b
7       b=(a^b)+b
8     Else
9       b=(c^a)+c
10    Jump out of the loop
11  End if
12  End for
13  return a+b
```

Note-  $\wedge$  is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

- A. 269
- B. 279
- C. 266
- D. 262

**Answer: C**

**Accenture Common Applications and MS Office**

1. In MS Word, if you want to repeat the last action performed then which of the following keys should be used?
- A. Ctrl+Enter
  - B. Tab+Enter
  - C. Alt+Enter
  - D. Shift+Enter

**Answer:**

2. If you will merge all the eight cells shown in the image then which of the following value will remain in the merged cell?

1	2	3	4
5	6	7	8

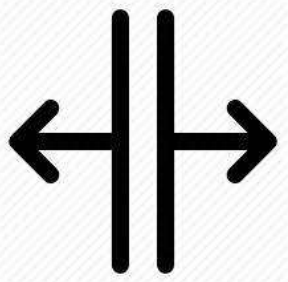
- A. 4
- B. 8
- C. 5
- D. 1

**Answer: D**

3. In MS Excel, merging cells will keep only \_\_\_\_\_ value and discard all other values.
- A. Upper-right
  - B. Upper-left
  - C. Bottom-right
  - D. Bottom-left

**Answer: B**

4. What does the given shape of cursor in MS Excel indicates?



- A. Enter data inside a cell
- B. Select a cell
- C. Select menu
- D. Column resizing

**Answer: D**

5. Which of the following key is used to exit from the full screen view from YouTube?
- A. Enter

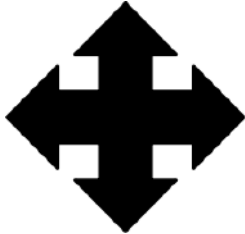




- B. Esc
- C. Windows
- D. Capslock

**Answer: B**

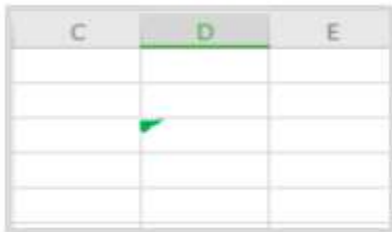
6. What does the given shape of the cursor in MS Excel indicates?



- A. Move selected cell
- B. Enter data inside a cell
- C. Column resizing
- D. Select menu

**Answer: A**

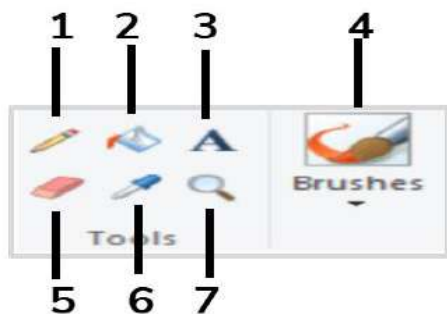
7. What does the green triangle sign on the top-left corner of a cell in MS Excel indicates?



- A. Wrong datatype
- B. Spelling mistake
- C. Error
- D. Comment

**Answer: D**

8. While using paint application, if you want to fill a circle with red colour in minimum time then which of the following should be used?

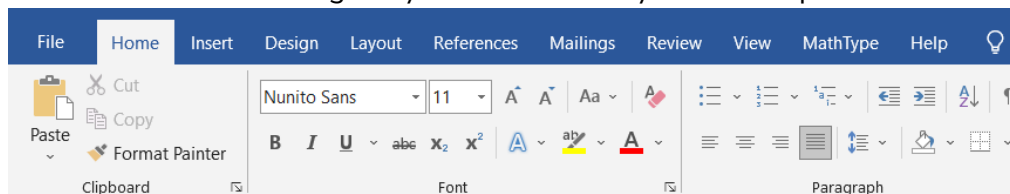


- A. 1
- B. 2

- C. 4
- D. 6

**Answer: B**

9. On which of the following tab you would click if you want to print a document?



- A. Insert
- B. Design
- C. Layout
- D. File

**Answer: D**

10. If you have used Ctrl+Z to undone something then which of the following is used to redo it?

- A. Ctrl + Y
- B. Ctrl + R
- C. Ctrl + x
- D. Ctrl + V

**Answer: A**

11. Which of the following function key is used to refresh a MS Word document?

- A. F2
- B. F5
- C. F9
- D. F1

**Answer: B**

## Accenture Networking Security and Cloud

1. Salesforce is an example of which of the following type of cloud-based services?

- A. SaaS
- B. IaaS
- C. IDaaS
- D. PaaS

**Answer: A**

2. As per which of the following essential characteristics of cloud, the hosted application should be reachable via any network-based appliance?

- A. On-demand self-service
- B. Broad network access
- C. Resource pooling
- D. Rapid elasticity

**Answer: B**

3. In which of the following type of hardware virtualization, the guest software run their own isolated domains?

- A. None of the mentioned options
- B. Emulation virtualization
- C. Paravirtualization
- D. Full virtualization

**Answer: C**

4. Which of the following are the PaaS characteristics that define it as a cloud service?

- 1. Builds on virtualization technology
  - 2. Provides a variety of services to assist with the development, testing, and deployment of apps
  - 3. Integrates web services and databases
- A. All 1, 2 and 3
  - B. 1 and 3
  - C. 1 and 2
  - D. 2 and 3

**Answer: A**

5. Data availability, as a security service is threatened by which of the following type of attack?

- A. Denial of service attack
- B. Masquerading
- C. Modification of message
- D. Repudiation

**Answer: A**

6. The given IP Address belongs to which of the following IP Class?

10.50.13.40

- A. Class A
- B. Class C
- C. Class B



D. Class D

**Answer: A**

7. In which of the following type of cyber-attacks, emails as shown in the image are sent to victims?

A. Phishing

B. Man-in-the-middle attack

C. Denial of Service attack

D. SQL injection

**Answer: A**

8. In OSI reference model, which of the following data units is exchanged between two transport layers?

A. Frame

B. Bits

C. Segment

D. Packet

**Answer: C**

9. Identify the type of topology shown in the image.



A. Bus

B. Mesh

C. Star

D. Ring

**Answer: B**

10. IPV6 protocol is implemented on which of the following layer of OSI model?

A. Application layer

B. Presentation layer

C. Physical layer

D. Network layer

**Answer: D**

## Accenture Coding

### 1. Sum of odd integers in array

#### Problem statement

An odd number is an integer which is not a multiple of 2.

You are required to implement the following function:

```
int SumOddIntegers(int arr[], int n);
```

The function accepts an integer array 'arr' of length 'n' as its argument. You are required to calculate the sum of all odd integers in an array 'an' and return the same.

#### Note:

Array can have negative integers

$n > 0$

Computed values lie within integer range

#### Example:

##### Input:

```
arr: 1 4 6 7 10 12 11 5
```

```
n: 8
```

##### Output:

```
24
```

##### Explanation:

The odd integers in array {1, 4, 6, 7, 10, 12, 11, 5} are {1, 7, 11, 5} and their sum is 24, hence 24 is returned.

##### The custom input format for the above case:

```
8
```

```
1 4 6 7 10 12 11 5
```

(The first line represents 'n' the second line represents the elements of the array)

##### Sample Input

```
arr: 2 4 9 7 11 13 25 31 6 8 10 24
```

```
n: 12
```

##### Sample Output

```
96
```

The custom input format for the above case:

```
12
```

```
2 4 9 7 11 13 25 31 6 8 10 24
```

(The first line represents 'n', the second line represents the elements of the array)



### Code Solution in C:

```
1 #include <stdio.h>
2 int sumAllOdds(int arr[], int size) {
3     int sum = 0;
4     for(int i = 0 ; i < size; i++) {
5         if(arr[i] % 2 != 0) { // checks if number is odd
6             sum += arr[i];
7         }
8     }
9     return sum;
10 }
11
12 int main() {
13     int n;
14     scanf("%d",&n);
15     int a[n];
16     for(int i=0;i<n;i++)
17     {
18         scanf("%d",&a[i]);
19     }
20     printf("%d\n",sumAllOdds(a,n));
21     return 0;
22 }
```

### Code Solution in C++ :

```
1 #include <bits/stdc++.h>
2 using namespace std;
3 int sumAllOdds(int arr[], int size) {
4     int sum = 0;
5     for(int i = 0 ; i < size; i++) {
6         if(arr[i] % 2 != 0) { // checks if number is odd
7             sum += arr[i];
8         }
9     }
10    return sum;
11 }
12
13 int main() {
14     int n;
15     cin>>n;
16     int a[n];
17     for(int i=0;i<n;i++)
18     {
19         cin>>a[i];
20     }
21     cout<<sumAllOdds(a,n)<<endl;
22     return 0;
23 }
```

## Code Solution in Java Code:

```
1 import java.util.*;
2 import java.lang.*;
3 import java.io.*;
4
5 class sumAllOdds{
6     public static void main(String args[])
7     {
8         int odd = 0;
9         Scanner in = new Scanner(System.in);
10        int n = in.nextInt();
11        int[] arr = new int[n];
12        for (int i = 0; i <n; i++){
13            arr[i] = in.nextInt();
14        }
15        for (int i = 0; i <n; i++) {
16            if ((arr[i] % 2) != 0)
17                odd += arr[i];
18        }
19        System.out.println(odd);
20    }
21 }
```



## 2. Inversion count in array

### Problem statement

Let  $j$  and  $k$  be two indices in an array  $A$ .

If  $j < k$  and  $A[j] > A[k]$ , then the pair  $(j,k)$  is known as an "Inversion pair".

You are required to implement the following function:

```
int InversionCount(int *A, int n);
```

The function accepts an array 'A' of 'n' unique integers as its argument. You are required to calculate the number of 'Inversion pair' in an array A, and return.

### Note:

If 'A' is NULL (None in case of python), return -1

If 'n' < 2, return 0

### Example:

#### Input:

A: 1 20 6 4 5

n: 5

#### Output:

5

#### Explanation:

The inversion pair in array A are (20,6),(20,4),(20,5),(6,4) and (6,5), the count of the inversions are 5, hence 5 is returned.

#### The custom input format for the above case:

5

1 20 6 4 5

(The first line represents the size of the array, the second line represents the elements of the array)

#### Sample Input

A: 13 10 9 6 21 15 14

n: 7

#### Sample Output

9

The custom input format for the above case:

7

13 10 9 6 21 15 14



## Code Solution in C:

```
1 #include <stdio.h>
2
3 int getInvCount(int arr[], int n)
4 {
5     int inv_count = 0;
6     for (int i = 0; i < n - 1; i++)
7         for (int j = i + 1; j < n; j++)
8             if (arr[i] > arr[j])
9                 inv_count++;
10
11     return inv_count;
12 }
13
14 int main() {
15     int n;
16     scanf("%d",&n);
17     int a[n];
18     for(int i=0;i<n;i++)
19     {
20         scanf("%d",&a[i]);
21     }
22     printf("%d\n",getInvCount(a,n));
23     return 0;
24 }
```

## Code Solution in C++:

```
1 #include <bits/stdc++.h>
2 using namespace std;
3
4 int getInvCount(int arr[], int n)
5 {
6     int inv_count = 0;
7     for (int i = 0; i < n - 1; i++)
8         for (int j = i + 1; j < n; j++)
9             if (arr[i] > arr[j])
10                inv_count++;
11
12     return inv_count;
13 }
14
15 int main() {
16     int n;
17     cin>>n;
18     int a[n];
19     for(int i=0;i<n;i++)
20     {
21         cin>>a[i];
22     }
23     cout<< getInvCount(a, n)<<endl;
24     return 0;
25 }
```

## Code Solution in Java:

```
1 import java.util.*;
2 import java.lang.*;
3 import java.io.*;
4
5 class InvCount {
6     public static void main(String[] args)
7     {
8         Scanner in = new Scanner(System.in);
9         int n = in.nextInt();
10        int[] arr = new int[n];
11        for (int i = 0; i < n; i++){
12            arr[i] = in.nextInt();
13        }
14        int inv_count = 0;
15        for (int i = 0; i < n - 1; i++)
16            for (int j = i + 1; j < n; j++)
17                if (arr[i] > arr[j])
18                    inv_count++;
19        System.out.println(inv_count);
20    }
21 }
```

## English Placement Papers

1. He brought him \_\_\_\_\_ with great difficulty.

A. about

B. in

C. up

D. over

**Answer: Option C**

2. VITUPERATE

A. abuse

B. rebuke

C. praise

D. retort

**Answer: Option C**

3. The young, thin boy surprised his wrestling opponent with his \_\_\_\_\_ strength.

A. fraudulent

B. wiry

C. frolicsome

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D. pretentious

**Answer: Option B**

4. An extremely deep crack or opening in the ground

A. Chasm

B. Aperture

C. Ditch

D. Pit

**Answer: Option A**

5. Modern

A. ity

B. ty

C. ize

D. ite

**Answer: Option A**

6. He took to (a) / reading Times (b) / for better knowledge (c) / of the facts (d) /  
No error (e)

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- A. he took to
- B. reading times
- C. for better knowledge
- D. of the facts

**Answer: Option B**

7. Likelihood

- A. liken
- B. likely
- C. like
- D. likeable

**Answer: Option C**

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8. With Justine's \_\_\_\_\_ nature and passion for art, she would make an excellent tour guide for the museum.

- A. volatile
- B. congenial
- C. servile
- D. fledgling

**Answer: Option B**

9. The train had left.

- A. past perfect
- B. past continuous
- C. past future
- D. simple present

**Answer: Option A**

10. You will have finished this work by tomorrow.

- A. This work will be finished by tomorrow.
- B. This work will finished tomorrow.
- C. This work will have been finished by tomorrow.**
- D. This work will have been finished tomorrow.

**Answer: Option C**

11. He may be innocent. I do not know.

- a) I doubt -----
- b) I do not -----
- c) That he is -----

- A. Only A
- B. Only B
- C. Only C
- D. A & B

**Answer: Option B**

12. CONVIVAL

- A. prodigal
- B. serious
- C. disloyal
- D. hostile
- E. friendly

**Answer: Option E**

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13. If he is averse \_\_\_\_\_ recommending my name, he should not hesitate to admit it.

- A. about
- B. for
- C. to
- D. against



**Answer: Option C**

14. EPITOMIZE

A. disappoint

B. distend

C. exemplify

D. generate

**Answer: Option C**

15. According to pirate lore, a terrible \_\_\_\_\_ would follow whoever opened the treasure chest.

A. precursor

B. precession

C. rendition

D. insurgence

E. malediction

**Answer: Option E**

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## Aptitude Test

1. Express a speed of 36 kmph in meters per second?

- A. 10 mps
- B. 12 mps
- C. 14 mps
- D. 17 mps

**Answer:** Option A

2. Express 25 mps in kmph?

- A. 15 kmph
- B. 99 kmph
- C. 90 kmph
- D. None

**Answer:** Option C

3. The speed of a train is 90 kmph. What is the distance covered by it in 10 minutes?

- A. 15 kmph
- B. 12 kmph
- C. 10 kmph
- D. 5 kmph

**Answer:** Option A

4. A car covers a distance of 624 km in  $6\frac{1}{2}$  hours. Find its speed?

- A. 104 kmph

- B. 140 kmph
- C. 104 mph
- D. 10.4 kmph

**Answer:** Option A

5. A and B complete a work in 6 days. A alone can do it in 10 days. If both together can do the work in how many days?

- A. 3.75 days
- B. 4 days
- C. 5 days
- D. 6 days

**Answer:** Option A

6. A can do a piece of work in 4 days. B can do it in 5 days. With the assistance of C they completed the work in 2 days. Find in how many days can C alone do it?

- A. 10 days
- B. 20 days
- C. 5 days
- D. 4 days

**Answer:** Option B

7. A, B and C can do a piece of work in 24, 30 and 40 days respectively. They start the work together but C leaves 4 days before the completion of the work. In how many days is the work done?

- A. 15 days
- B. 14 days

C. 13 days

D. 11 days

**Answer:** Option D

8. 5 men and 12 boys finish a piece of work in 4 days, 7 men and 6 boys do it in 5 days. The ratio between the efficiencies of a man and boy is?

A. 1:2

B. 2:1

C. 2:3

D. 6:5

**Answer:** Option D

9. A and B can finish a work in 16 days while A alone can do the same work in 24 days. In how many days B alone will complete the work?

A. 56

B. 48

C. 36

D. 58

**Answer:** Option B

10. Some persons can do a piece of work in 12 days. Two times the number of these people will do half of that work in?

A. 3 days

B. 4 days

C. 6 days

D. 12 days

**Answer:** Option A

11. What number has a 5:1 ratio to the number 10?

A. 42

B. 50

C. 55

D. 62

**Answer:** Option B

12. Two same glasses are respectively  $\frac{1}{4}$ th  $\frac{1}{5}$ th full of milk. They are then filled with water and the contents mixed in a tumbler. The ratio of milk and water in the tumbler is?

A. 3:8

B. 9:31

C. 8:21

D. 10:27

**Answer:** Option B

13. A and B entered into a partnership investing Rs.25000 and Rs.30000 respectively. After 4 months C also joined the business with an investment of Rs.35000. What is the share of C in an annual profit of Rs.47000?

A. Rs.18000

B. Rs.15000

C. Rs.17000

D. Rs.14000

**Answer:** Option D

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14. In how many years does a sum of Rs. 5000 yield a simple interest of Rs. 16500 at 15% p.a.?

A. 22

B. 24

C. 25

D. 23

**Answer:** Option A

15. The radius of a circle is increased by 1%. Find how much % does its area increases?

A. 1.01%

B. 5.01%

C. 3.01%

D. 2.01%

**Answer:** Option D

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## Accenture Technical Section Questions & Answers



1) Let  $A$  be a square matrix of size  $n \times n$ . Consider the following program. What is the expected output?

```
C = 100
for i = 1 to n do
  for j = 1 to n do
  {
  Temp = A[i][j] + C
  A[i][j] = A[j][i]
  A[j][i] = Temp - C
  }
for i = 1 to n do
  for j = 1 to n do
  Output(A[i][j]);
```

- a. Transpose of matrix  $A$
- b. Adding 100 to the upper diagonal elements and subtracting 100 from diagonal elements of  $A$
- c. The matrix  $A$  itself**
- d. None of these

2) Consider a hash table with 9 slots. The hash function is  $h(k) = k \bmod 9$ . The collisions are resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10. The maximum, minimum, and average chain lengths in the hash table, respectively, are

- 1. 3, 0 and 2
- 2. 4, 0, 1
- 3. 3, 0, and 1**
- 4. 3, 3, and 3

3) Suppose implementation supports an instruction REVERSE, which reverses the order of elements on the stack, in addition to the PUSH and POP

## Accenture Technical Section Questions & Answers



instructions. Which one of the following statements is TRUE with respect to this modified stack?

1. A queue cannot be implemented using this stack.
- 2. A queue can be implemented where ENQUEUE takes a sequence of three instructions and DEQUEUE takes a single instruction.**
3. A queue can be implemented where both ENQUEUE and DEQUEUE take a single instruction each.
4. A queue can be implemented where ENQUEUE takes a single instruction and DEQUEUE takes a sequence of two instructions.

4) A priority queue is implemented as a Max-Heap. Initially, it has 5 elements. The level-order traversal of the heap is: 10, 8, 5, 3, 2. Two new elements 1 and 7 are inserted into the heap in that order. The level-order traversal of the heap after the insertion of the elements is:

1. 10, 8, 7, 2, 3, 1, 5
2. 10, 8, 7, 1, 2, 3, 5
- 3. 10, 8, 7, 3, 2, 1, 5**
4. 10, 8, 7, 5, 3, 2, 1

5) State True or False.

i) Binary search is used for searching in a sorted array.

ii) The time complexity of binary search is  $O(\log n)$ .

1. False, True
- 2. True, True**
3. False, False
4. True, False



## Accenture Technical Section Questions & Answers



6) A binary tree that has  $n$  leaf nodes. The number of nodes of degree 2 in this tree is ?

1.  $n$
- 2.  $n - 1$**
3.  $\log_2 n$
4.  $n^2$

7) Which of the following is true about the characteristics of abstract data types? <https://www.freshersnow.com/previous-year-question-papers/>

- i) It exports a type.
- ii) It exports a set of operations

1. False, False
- 2. True, True**
3. True, False
4. False, True

8) A machine took 200 sec to sort 200 names, using bubble sort. In 800 sec, it can approximately sort ?

1. 800 names
- 2. 400 names**
3. 750 names
4. 800 names

## Accenture Technical Section Questions & Answers



9) The average search time of hashing with linear probing will be less if the load factor ?

1. equals one
- 2. is far less than one**
3. is far greater than one
4. none of these

10) The initial configuration of the queue is a,b,c,d (a is the front end). To get the configuration d,c,b,a one needs a minimum of ?

1. 3 deletions and 4 additions
- 2. 3 deletions and 3 additions**
3. 3 additions and 2 deletions
4. 2 deletions and 3 additions

11) State true or false.

- i) The degree of root node is always zero.
- ii) Nodes that are not root and not leaf are called as internal nodes.

1. False, False
2. True, True
- 3. False, True**
4. True, False

12) The number of binary trees with 3 nodes which when traversed in post order gives the sequence A,B,C is ?

1. 9
2. 3

## Accenture Technical Section Questions & Answers



3. 7

4. 5

13) Which of the following is not the internal sort?

1. Insertion Sort
2. **Merge Sort**
3. Heap Sort
4. Bubble Sort

14) Consider the tree arcs of a BFS traversal from a source node W in an unweighted, connected, undirected graph. The tree T formed by the tree arcs is a data structure for computing.

1. **the shortest path from W to every vertex in the graph.**
2. the shortest paths from W to only those nodes that are leaves of T.
3. the longest path in the graph
4. the shortest path between every pair of vertices.

15) The number of swapping needed to sort numbers 8,22,7,9,31,19,5,13 in ascending order using bubble sort is ?

1. 12
2. 11
3. **14**
4. 13

16) The postfix expression for  $* + a b - c d$  is?

1.  $ab\ cd\ +\ -\ *$
2.  $ab\ +\ cd\ *\ -$
3.  $ab\ +\ -\ cd\ *$

## Accenture Technical Section Questions & Answers



### 4. $ab + cd - *$

17) Given two sorted lists of size  $m$  and  $n$  respectively. The number of comparisons needed in the worst case by the merge sort algorithm will be?

1.  $\min(m,n)$
2.  $mn$
3.  $\max(m,n)$
4.  **$m+n-1$**

18) State True or False.

i) Network is a graph that has weights or costs associated with it.

ii) An undirected graph which contains no cycles is called a forest.

iii) A graph is said to be complete if there is no edge between every pair of vertices.

1. True, True, True
2. True, False, True
3. **True, True, False**
4. False, True, True

19) Consider the following pseudo code. What is the total number of multiplications to be performed?

```
D = 2
for i = 1 to n do
  for j = i to n do
```

## Accenture Technical Section Questions & Answers



for  $k = j + 1$  to  $n$  do  
 $D = D * 3$

1. Half of the product of the 3 consecutive integers.
2. One-third of the product of the 3 consecutive integers.
- 3. One-sixth of the product of the 3 consecutive integers.**
4. No

20) If the sequence of operations - push(1), push(2), pop, push(1), push(2), pop, pop, pop, push(2), pop are performed on a stack, the sequence of popped out values are ?

1. 2, 1, 2, 2, 1
2. 2, 1, 2, 2, 2
3. 2, 2, 1, 2, 2
- 4. 2, 2, 1, 1, 2**

# Previous Year Accenture Model Paper



## Accenture English Ability

1. Find out which underlined part of the sentence below has an error and mark the option accordingly. Butterflies are considered as the main agent of transferring pollen grains. Sometimes, this gives rise to different species of flowers, a true fascination unknown to the science world.

- A. Sometimes, this gives rise to different
- B. Considered as the main
- C. Of transferring
- D. Unknown to the science world

Answer: B

Read the passage given below and answer the questions that follow.

Dogs, often hailed as humans' best friends, have been the topic of many scientific studies looking into how they might boost our well-being. It is likely that humans and dogs have shared a special bond of friendship and mutual support ever since at least the Neolithic period — but why has this bond been so long-lasting?

A recent study showed that owning a dog reduces a person's risk of premature death by up to a third. Also, researchers at the University of Harvard in Cambridge, MA, suggest that dog owners have a lower risk of heart disease. Dogs can strengthen our health not just as we grow older, but also much, much earlier than that: before we are even born. Research published last year suggests that children who were exposed to dogs while still in the womb — as their mothers spent time around dogs during pregnancy — had a lower risk of developing eczema in early childhood. When we interact with dogs, our oxytocin levels shoot up. Since this is the hormone largely responsible for social bonding, this hormonal "love injection" boosts our psychological well-being. Previous studies analyzed in the review have revealed that dog owners have more positive social interactions, and that the presence of canine friends makes people more trusting. Moreover, dogs appear to reduce symptoms of depression and render people more resilient to stress. That is why dogs are often used as therapy animals.

2. Choose the option that is closest in meaning to the word 'resilient' as used in the passage

- A. Stable
- B. Unadaptable
- C. Immune
- D. Determined

Answer: C

# Previous Year Accenture Model Paper



3. The passage is primarily concerned with:

- A. Emphasizing how building a bond with dogs can help us in health matters
- B. Outlining the relationship of humans and dogs.
- C. Highlighting that dogs are used in medical aid now-a-days.
- D. Listing the benefits of owing a dog and how to establish a bond with them.

Answer: A

4. The author feels that the owing a dog affects the mental health:

- A. Quickly
- B. Positively
- C. Emphatically
- D. Negatively

Answer: B

5. Mark the option which is closest in meaning to the word given below.

COHERENCE

- A. Fighting
- B. Unity
- C. Companionship
- D. Slowness

Answer: B

6. Mark the option containing the word that is opposite in meaning to the underlined word given below.

Roger is a consummate player who earned over nine million dollars in the tournament last year.

- A. Incompetent
- B. Best
- C. Slow
- D. Professional

Answer: A

7. Choose the best replacement for the underlined part of the sentence.

The match was expected to be won by India as the players were very active on the field.

- A. The India was expected to win the match
- B. The match was being expected to be won by the India
- C. It is being expected by the India to win the match
- D. India was expected to win the match

Answer: D

8. Choose the best replacement for the underlined part of the sentence.

# Previous Year Accenture Model Paper



You should always keep away from bad company.

- A. Always keep away
- B. Keep away always
- C. Keep yourself away always
- D. Always keeps away

Answer: C

9. The sentences given below from a coherent passage when arranged logically. Choose the option

which gives the correct sequence.

1. The practice is widespread: honeybees are kept in large cities and villages, on farms and rangelands, in forests and deserts, Arctic and Antarctic from the Equator to even the frozen poles of Earth.
2. This has helped many people to improve their economic stability by giving them a secondary source of income.
3. Bee - keeping is caring for and management of colonies of honeybees.
4. They are kept for their honey, wax, and also their services as pollinators of fruit and vegetable blossoms, or even as a hobby.

- A. 1 3 2 4
- B. 1 3 4 2
- C. 3 2 1 4
- D. 3 4 1 2

Answer: C

10. Choose the best replacement for the underlined part of the sentence.

Sam and Tim's wife are coming this afternoon.

- A. Sam's and Tim's wives
- B. Sam and Tim's wives
- C. Sam's and Tim's wife
- D. Sam's and Tim wife

Answer: A

## Accenture Critical Reasoning and Problem Solving

1. Statements:

- I. Some apples are guavas.
- II. All apples are oranges.
- III. No orange is a papaya.
- IV. All papayas are guavas.

Conclusions:

- I. Some papayas are apples.



# Previous Year Accenture Model Paper



- II. Some oranges are papayas.
- III. Some guavas are oranges.
- A. Only conclusion III follows
- B. Either conclusion I or conclusion III follows
- C. None follow
- D. Only conclusion I follows

Answer: A

2. In the following question, the symbols +, -, \*, /, and \$ are used with the following meanings illustrated.

'X \* Y' means 'X is either greater than or equal to Y'.

'X - Y' means 'X is neither greater than nor smaller than Y'.

'X \$ Y' means 'X is smaller than Y'.

In the following question assuming the given statements to be true, find out which of the three conclusions I, II and III given below the is/are definitely true and mark your answer accordingly.

Statements:

I. M + J

II. J/Y

III. Y\$K

IV. K-N

Conclusions:

I. K \* J

II. J + N

III. K \$ M

- A. Only conclusion I and conclusion III follow
- B. None follow
- C. Only conclusion I and conclusion II follow
- D. Only conclusion II and conclusion III follow

Answer: B

3. Read the following argument and mark which of the following assumptions is made in the argument.

More than one billion years' worth of rocks have gone missing from the geologic record of Grand Canyon.

- A. Earth has transitioned from an older setting to the modern one during these one billion years.
- B. None of the mentioned options.
- C. The western half of the Grand Canyon has gone through a very different geologic contortion compared to the eastern half.
- D. Series of Faulting events in that region possibly tore up the earth around the Canyon causing rocks and sediments to wash away in the ocean.

Answer: D

# Previous Year Accenture Model Paper



4. Mark the option containing the sentence that strengthens the argument given below.

Argument: People generally wear light colour clothes in summer.

- A. They are easy to wash and easy to dry.
- B. Light colour clothes are bad absorber of light.
- C. These light colour clothes are thick and warm.
- D. They are readily and cheaply available in the summer.

Answer: B

5. The question given below is followed by two statements numbered I and II. Determine if the statements are, individually or together, sufficient to answer the question.

Question: How many questions did Jacob attempt in the English test?

Statements:

- I. There were 35 questions in the test.
- II. He got 25 marks in the test, in which every correct answer fetched 1 mark, for every unattempted questions fetched 0 mark, and for every incorrect answer  $\frac{1}{3}$  mark was deducted from the total.

- A. Each statement alone is sufficient to answer the question.
- B. Only one of the statements, alone, is sufficient to answer the question but other statement is not.
- C. Statements I and II together are not sufficient to answer the question asked and additional data to the problem is needed.
- D. Both statements I and II together are sufficient to answer the question asked but neither statement alone is sufficient.

Answer: D

Direction for Q6 to Q9: Read the following information given below and answer the questions that

follow:

Six friends - Sheldon, Jack, Justin, Bruce, Peter, and Nicholas are sitting around a circular table, not

necessarily in the same order. All of them are facing the center.

- I. Peter is sitting exactly opposite to Jack.
- II. Justin is the only person sitting between Bruce and Peter.
- III. Sheldon is sitting to the immediate left of Jack.

6. Who among the following are not the immediate neighbours?

- A. Bruce and Justin
- B. Nicholas and Peter
- C. Nicholas and Justin
- D. Jack and Sheldon

Answer: C

7. Who is sitting second to the right of Peter?

# Previous Year Accenture Model Paper



- A. Peter
- B. Justin
- C. Jack
- D. Sheldon

Answer: D

8. Who is sitting to the opposite of Sheldon?

- A. Bruce
- B. Justin
- C. Peter
- D. Nicholas

Answer: B

9. Which of the following is false regarding the position of Jack?

- A. Jack is sitting third of the left of Nicholas.
- B. Jack is sitting second to the right of Nicholas.
- C. Jack is sitting between Bruce and Sheldon.
- D. Jack is sitting to the immediate left of Bruce

Answer: A

Direction for Q10 to Q13: Read the following information given below and answer the questions that follow:

There were six participants - M, N, O, P, Q and R in the final of coffee making competitions. The six

participants belong to six different locations - Delhi, Mumbai, New York, Paris, Tokyo and London.

David, the judge of this competition, rated the coffee prepared by the participants on a scale of 1

to 10 giving a unique rating to each participant.

- I. R was from London.
- II. Participants from New York got the highest ranking, but was not O.
- III. Only two participants got ratings in even numbers.
- IV. The rating of O was double the rating of Q.
- V. N got the minimum rating and the rating was an even number.
- VI. O got a higher rating than M.

10. What was the second highest rating given?

- A. 7
- B. 8
- C. 9
- D. 6

Answer: A

11. Who belongs to New York?

- A. P

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- B. Q
- C. Cannot be determined
- D. M

Answer: A

12. What was the rating of coffee prepared by Q?

- A. 3
- B. 2
- C. 6
- D. 5

Answer: A

13. Which of the following statements is definitely true?

- A. P got a rating of 10
- B. M got a rating of 5
- C. O belongs to Mumbai
- D. Q belongs to Paris

Answer: B

Direction for Q14 to Q15: The statement given below is followed by two conclusions. Assume the statement is true, even if it contradicts commonly known facts, and determine the conclusion/s that logically follow/s from the statement.

14. Statement: Social gatherings could turn into COVID super spreader events if safety norms are flouted.

Conclusions:

I. The coming festive season could be dangerous if safety norms are flouted and lead to a surge in COVID cases.

II. Vaccine provides over 95% protection against severe disease and hospitalisation.

- A. Both conclusion I and conclusion II follow
- B. Only conclusion I follows
- C. Only conclusion II follows
- D. Neither conclusion I nor conclusion II follows

Answer: B

15. Statement:

Government has started to offer incentives and subsidies on Electric Vehicles.

Conclusions:

I. Pollution can be mitigated by the use of electric vehicles.

II. Electric vehicles are not pocket friendly as compared to conventional petrol/diesel vehicles.

- A. Both conclusion I and conclusion II follow
- B. Only conclusion I follows

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- C. Neither conclusion I nor conclusion II follows
  - D. Only conclusion II follows
- Answer: D

## Accenture Abstract Reasoning

1. Mark the odd one out from the given options.

- A. BDG
- B. FHK
- C. OQT
- D. NPT

Answer: D

2. Mark the option that best completes the comparison.

Sun : Solar System :: Brakes : ?

- A. Car
- B. Office
- C. Recess
- D. Time

Answer: A

3. Mark the option that best completes the comparison

Rainbow: Sky :: Movie :?

- A. Car
- B. Picture
- C. Theatre
- D. Actor

Answer: C

4. Find the missing term in the series given below:

12, 20, 33, 51, ?, 102

- A. 69
- B. 82
- C. 74
- D. 78

Answer: C

5. Find the missing term in the series given below:

112, 111, 107, 98, ?, 57

- A. 83
- B. 79
- C. 82
- D. 87

Answer: C

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6. Find the missing term in the series given below:

CEG, PSU, KMO, XAC, SUW, ?

- A. FIK
- B. EHJ
- C. FHJ
- D. JKL

Answer: A

7. If in a certain code language, "PACEMAKING" is coded as "UEFGNFOLPH", then how would "KABALISTIC" be coded in the same language?

- A. PEECMNWWKD
- B. PEEDMNWYKD
- C. OEECNMWWKE
- D. PEDCNMWWKD

Answer: A

## Accenture Networking Security and Cloud

1. Salesforce is an example of which of the following type of cloud-based services?

- A. SaaS
- B. IaaS
- C. IDaaS
- D. PaaS

Answer: A

2. As per which of the following essential characteristics of cloud, the hosted application should be

reachable via any network-based appliance?

- A. On-demand self-service
- B. Broad network access
- C. Resource pooling
- D. Rapid elasticity

Answer: B

3. In which of the following type of hardware virtualization, the guest software run their own isolated

domains?

- A. None of the mentioned options
- B. Emulation virtualization
- C. Paravirtualization
- D. Full virtualization

Answer: C

4. Which of the following are the PaaS characteristics that define it as a cloud service?

# Previous Year Accenture Model Paper



1. Builds on virtualization technology
2. Provides a variety of services to assist with the development, testing, and deployment of apps
3. Integrates web services and databases

- A. All 1, 2 and 3
- B. 1 and 3
- C. 1 and 2
- D. 2 and 3

Answer: A

5. Data availability, as a security service is threatened by which of the following type of attack?

- A. Denial of service attack
- B. Masquerading
- C. Modification of message
- D. Repudiation

Answer: A

6. The given IP Address belongs to which of the following IP Class?

10.50.13.40

- A. Class A
- B. Class C
- C. Class B
- D. Class D

Answer: A

7. In which of the following type of cyber-attacks, emails as shown in the image are sent to victims?

- A. Phishing
- B. Man-in-the-middle attack
- C. Denial of Service attack
- D. SQL injection

Answer: A

8. In OSI reference model, which of the following data units is exchanged between two transport layers?

- A. Frame
- B. Bits
- C. Segment
- D. Packet

Answer: C

9. IPV6 protocol is implemented on which of the following layer of OSI model?

- A. Application layer
- B. Presentation layer
- C. Physical layer
- D. Network layer

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Answer: D

## Accenture Coding

### 1. Sum of odd integers in array

#### Problem statement

An odd number is an integer which is not a multiple of 2.

You are required to implement the following function:

```
Int SumOddIntegers(int arr[], int n);
```

The function accepts an integer array 'arr' of length 'n' as its argument. You are required to calculate the sum of all odd integers in an array 'an' and return the same.

Note: <https://www.freshersnow.com/placement-papers-download/>

Array can have negative integers

$n > 0$

Computed values lie within integer range

Example:

Input:

```
arr: 1 4 6 7 10 12 11 5
```

```
n: 8
```

Output:

```
24
```

Explanation:

The odd integers in array {1, 4, 6, 7, 10, 12, 11, 5} are {1, 7, 11, 5} and their sum is 24, hence 24

is

returned.

The custom input format for the above case:

```
8
```

```
1 4 6 7 10 12 11 5
```

(The first line represents 'n' the second line represents the elements of the array)

Sample Input

```
arr: 2 4 9 7 11 13 25 31 6 8 10 24
```

```
n: 12
```

Sample Output

```
96
```

The custom input format for the above case:

```
12
```

```
2 4 9 7 11 13 25 31 6 8 10 24
```

(The first line represents 'n', the second line represents the elements of the array)

Code Solution in C:



# Previous Year Accenture Model Paper



```
1 #include <stdio.h>
2 int sumAllOdds(int arr[], int size) {
3     int sum = 0;
4     for(int i = 0 ; i < size; i++) {
5         if(arr[i] % 2 != 0) { // checks if number is odd
6             sum += arr[i];
7         }
8     }
9     return sum;
10 }
11
12 int main() {
13     int n;
14     scanf("%d",&n);
15     int a[n];
16     for(int i=0;i<n;i++)
17     {
18         scanf("%d",&a[i]);
19     }
20     printf("%d\n",sumAllOdds(a,n));
21     return 0;
22 }
```

## Reasoning Test Placement Papers

1. Class A has a higher enrollment than Class B.

Class C has a lower enrollment than Class B.

Class A has a lower enrollment than Class C.

If the first two statements are true, the third statement is

A. true

B. false

C. uncertain

D. None

**Answer: Option B**

2. All animals have

A. Eyes

B. Four legs

C. Horns

D. Instincts

**Answer: Option D**

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3. We, at Comfort Stationers, have always been striving to provide stationery items that would make your work more enjoyable and less strenuous. Our latest innovations are a smooth-flow pen and gradual-friction paper. A combination of these two reduces strain on your fingers and allows faster writing the causes lesser fatigue. Therefore, replacement of your pen and paper with our innovative products reduces cost of clerical jobs.

Which of the following, if true, would weaken the conclusion drawn in the above argument?

- A. Those who are already using the above new products report greater difficulty in transition from new products to regular ones than from the regular ones to the new ones.
- B. The cost of manufacturing these new products is not more than the cost of manufacturing the regular ones and the new products last longer than the regular ones.
- C. The number of offices using the new products is increasing month by month.
- D. These products need to be purchased in huge lots and need to be stored in special conditions. The cost of procurement and storage is quite high.

**Answer: Option D**

**Solution:**

The passage talks about the advantages in writing by using the new kind of pen and paper and arrives at a conclusion about the cost of clerical job. We have to show that the new products do not lead to decrease in cost of clerical job.

None of the choice (a), (c) and (e) has anything about the cost. Hence, none of them weakens the conclusion.

Choice (b) states that the new products can be manufactured and they also last longer. This information strengthens the conclusion.

According to choice (d) the procurement and storage costs are very high. This casts a doubt on the conclusion that the cost of clerical job can be decreased by using these new products. Hence, (d) weakens the conclusion.

4. Choose the correct alternative that will continue the same pattern and fill in the blank spaces:

2, 3, 5, 7, 11, (...), 17

A. 12

B. 13

C. 14

D. 15

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**Answer: Option B**

**Solution:**

Clearly, the given series consists of prime numbers starting from 2. The prime number after 11 is 13. So, 13 is the missing number

5. (A) The Archaeological Survey of India has submitted a report for the Supreme Court that there is no evidence to prove that the Rama Sethu is man made.

(B) Mr. Kailash which is a natural formation, is considered holy and is received by Hindus and Buddhists the world over.

- A. if statement (A) is the cause and statement (B) is its effect.
- B. if statement (B) is the cause and statement (A) is its effect.
- C. if both the statements (A) and (B) are independent causes.
- D. if both the statements (A) and (B) are effects of independent causes.

**Answer: Option D**

**Solution:**

The cause for ASIs report and the cause for Hindus and Buddhists considering Kailash as holy mountain are different.

6. Study the following information carefully and answer the given questions:

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement:

Input: 39 121 48 18 76 112 14 45 63 96

Step I: 14 39 121 48 18 76 112 45 63 96

Step II: 14 39 48 18 76 112 45 63 96 121

Step III: 14 18 39 48 76 112 45 63 96 121

Step IV: 14 18 39 48 76 45 63 96 112 121

Step V: 14 18 39 45 48 76 63 96 112 121

Step VI: 14 18 39 45 48 63 76 96 112 121

This is the final arrangement and step VI is the last step for this input.

How many steps will be required for getting the final output for the following input?

Input: 101 85 66 49 73 39 142 25 115 74

A. 5

B. 6

C. 7

D. 8

**Answer: Option D**

**Solution:**

Step I: The smallest number becomes first and the remaining numbers shift one position rightward.

Step II: The largest number among given numbers becomes last and the remaining numbers shift one position leftward.

The steps are repeated alternately till all the numbers get arranged in ascending order and that will be that last step for that particular input.

7. Statement:

The principal instructed all the teachers to be careful in class because some students may disturb other students.

Assumptions:

I. The teachers may handle the situation properly and they may restrict the naughty students.

II. The students will welcome the decision of the Principal.

A. If only assumption I is implicit

B. If only assumption II is implicit

C. If either I or II is implicit

D. If neither I nor II is implicit

**Answer: Option A**

**Solution:**

I is implicit; that is why the principal instructed the teachers to carry the responsibility. II is not implicit, the mischievous section may not welcome the decision.

8. Labourer is related to wages in the same way as an entrepreneur is related to?

A. Loan

B. Interest

C. Taxes

D. Profit

**Answer: Option D**

**Solution:**

First earns in the form of a second.

9. Event (A): Company X is opening an office in city Y for marketing the company's products.

Event (B): Company X has chalked out an expansion plan, involving raising production capacity at its existing plants.

A. If 'A' is the effect and 'B' is its immediate and principle cause.

B. If 'B' is the effect and 'A' is its immediate and principle cause.

C. If 'A' is the effect but 'B' is not its immediate and principle cause.

D. If 'B' is the effect but 'A' is not its immediate and principle cause.

**Answer: Option C**

**Solution:**

Events (A) and (B) are related events and chronologically (B) occurs before (A) and because of as they are planning to increase capacity, they have to make a plan to sell their products also so they open new offices for marketing those products. But opening an office in a particular city, requires other events such as market survey etc. It is not the immediate and principle cause.

10. Statement:

Cutting down of forests is a threat to the wild life. Most of the species of animals are on the verge of extinction.



Courses of Action:

I. The species of animals, which are on the verge of extinction, must be protected by creating wild life sanctuaries which contain flora that defines the native habitat of the endangered animals.

II. To the maximum extent possible we should stop deforestation.

III. Growing urban forests to compensate for deforestation.

A. Only II follows

B. Only III follows

C. Only I and II follow

D. Only I and follows

**Answer: Option C**

**Solution:**

Here the problem is extinction of various species of animals, so providing them their native habitat is the proper solution for the problem.

II is a proper course of action as stopping deforestation can solve the problem to some extent.

III is not a proper course of action as urban forest cannot be the habitat for the wild animals.

From the first two statements, we know that of the three classes, Class A has the highest enrollment, so the third statement must be false.

11. 522 1235 2661 4800 7652 11217 ?

A. 15495

B. 16208

C. 14782

D. 16921

**Answer: Option A**

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