

LATEST ACCENTURE PAPER

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a. smaller b. older c. rare d. outdated Ans...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 journey 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.

23. how many students played game 1 but not game 2 & 3 ?

a. 3 b. 8 c. 15 d. 23 Ans... b

24. how many students played game 3 but not game 1 & 2 ?

a. 12 b. 16 c. 32 d. 46 Ans... a

25. how many students played game 2 but not game 1 & 3 ?

a. 2 b. 7 c. 15 d. 37 Ans... c

bhamsingh and sukhahal contested the assembly election. bhimsingh won the election by 2000 votes, securing 55% of the total votes. 10% of the total voters did not votes.

26. how maney votes were cast in favour of bhimsing?

a. 2000 b. 2750 c. 4250 d. 5500 Ans... d

27. how maney votes were cast in favour of the defeated condidates?

a. 2000 b. 2250 c. 3500 d. 4000 Ans... c

direction for q. 28 to 32.....

1. if the q. can be answer with help of statment I alone
2. if the q. can be answer with help of statment II alone
3. if the q. can be answer with help of statment I & II
4. none of these

28. is $x/2 > y/3$?

I. $3x < 2y$

II. $4x > 3y$

a. 1 b. 2 c. 3 d. 4 Ans... b

29. the tax payers are required to pay their taxes before a particular day in a year. the tax authority remind the tax payer to do the need ful within ten days by advertising in the newspapers. can the day by which the tax payers should pay the taxes be determined?

I. the advertisement was published on 24th februrary.

II. the year is not a leap year.

a. 1 b. 2 c. 3 d. 4 Ans... c

30. is Z odd?

I. $y + 3Z$ is odd.

II. $2y + 7z$ is odd.

a. 1 b. 2 c. 3 d. 4 Ans... b

31. how maney hours does it take for a train journey from delhi to allahabad ?

I. it takes 10 hour from delhi to lucknow.

II. it takes 6 hour from lucknow to allahabad.

a. 1 b. 2 c. 3 d. 4 Ans... c

32. a shopkeeper sells some mangoes on monday. what is the % profit?

I. the cost price = $2/3$ 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, soraj said, "he is the brother of my uncle's daughter". how is the man related to saroj?

- 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 papanicolaoui papanicolaou A. A B.

- B C. C D. D Ans... b

45. skeptic should skeptick should sckptic 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 = Rs.2100

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

$$= 14\% \text{ per annum}$$

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 $y = 3000$

$$3600 \times .05 = 180$$

$$3000 \times .03 = 90$$

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

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 $\frac{1}{2}$

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

$x = 40$

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. $\frac{1}{8}$
- D. $\frac{51}{9}$

Answer – C. $\frac{1}{8}$

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,

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

$$\frac{3}{24}=\frac{1}{8}$$

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:

$$\text{Profit} = 28 * 6 = 728$$

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

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

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:

$$\begin{aligned} \text{CP} &= 30*75 + 20*70 = 2250 + 1400 \\ &= 3650 \end{aligned}$$

$$\text{SP} = 80*(30+20) = 4000$$

$$\text{Hence, Gain} = 4000-3650 = 350$$

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:

$$\% = [80 - 65/65]*100$$

$$= 15*100/65 = 1500/65$$

$$= 23.07 = 23\% \text{ profit}$$

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:

$$P - 8 = S + D \text{ ---(1)}$$

$$6D + 30 = 7S + 35 \text{ ---(2)}$$

$$H = 7 + P$$

$$H = 3S$$

$$3S = 7 + P \text{ ---(3)}$$

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 = $\frac{4}{5}x$

Present age of Revanth's father is = $\frac{4}{15}x$

Ratio = 15: 12 : 4

Difference between the Revanth's son's present age and Revanth's father's present age = $\frac{62}{31} \times 3(15 - 4)$.

= $2 \times 3 \times 11 = 66$ 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:

$$38 + 142 - 11 = 169 = 13 \times 13$$

23. $1\frac{1}{5}$ of $1\frac{1}{2}$ of ? = 216

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

Accenture Aptitude Questions and Answers with Explanation

Answer – D. 120

Explanation:

$$\frac{6}{5} \times \frac{3}{2} \times X = 216$$

$$X = 216 \times \frac{2}{5} \times \frac{5}{6} = 2160/18 = 120$$

24. 15 32 60 122 240 ?

- A. 488
- B. 482
- C. 364
- D. 362

Answer – B. 482

Explanation:

$$15 * 2 + 2 = 32$$

$$32 * 2 - 4 = 60$$

$$60 * 2 + 2 = 122; 122 * 2 - 4 = 240$$

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

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) 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 principlecause.

B.If 'B' is the effect and 'A' is its immediate and principlecause.

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

English Language

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, shewouldmake
anexcellent

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]);
```

- 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**

- 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 %doesits areaincreases?

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 that 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 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 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:

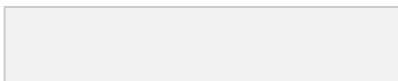
Input: 39 121 48 18 76 112 14 45 63 96

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

thefollowinginput?

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

A. 5

B. 6

C. 7

D. 8

Answer: Option D

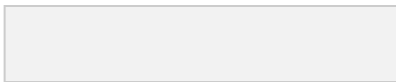
Solution:

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

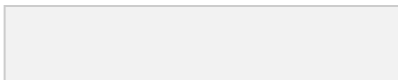
Answer: Option

ASolution:

I is implicit; that is why the principal instructed the teachers to carrytheresponsibility.
II is not implicit. The mischievous section may not welcomethedecision.

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

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



Answer: Option

DSolution:

First earns in the form of a second.

9. Event (A): Company X is opening an office in city Y for marketingthecompany'sproducts.

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

A. If 'A' is the effect and 'B' is its immediate and principlecause. B. If 'B' is the effect and 'A' is its immediate and principlecause. 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

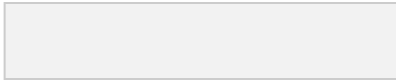
Solution:

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 define 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]);

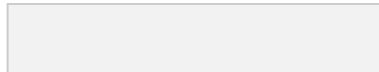
```

- 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.

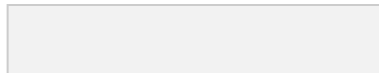
4) A priority queue is implemented as a Max-Heap. Initially, it has 5 elements. The level-order traversal of the heap is: 10, 8, 5, 3, 2. Two new elements 1 and 7 are inserted into the heap in that order. The level-order traversal of the heap after the insertion of the elements is:

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 datatypes?

i) It exports a type.

ii) It exports a set of operations

1. False, False

2. True, True

3. True, False

4. False, True

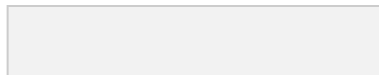
8) A machine took 200 sec to sort 200 names, using bubble sort. In 800sec, it can approximately sort ?

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

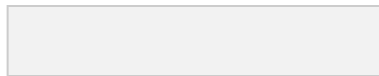
3. False, True

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.

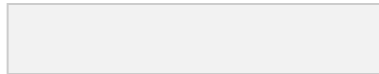
- 1. the shortest path from W to every vertex in the graph.**
- 2. the shortest paths from W to only those nodes that are leaves of T.**
- 3. the longest path in the graph**
- 4. the shortest path between every pair of vertices.**

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.

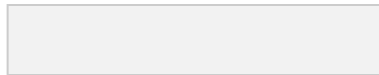
i) Network is a graph that has weights or costs associated with it. ii) An undirected graph which contains no cycles is called a forest.

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/Wheelbox	Allowed	Allowed	No Negative Marking

Accenture Online Test Syllabus

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

	<ul style="list-style-type: none">• Tenses, Synonyms• Antonyms, Spellings• Idioms and Phrases
Numerical Ability	<ul style="list-style-type: none">• Time and work• Time Speed and Distance• Algebra, Equations• Progressions• Profit and Loss• Ratio• Averages• Geometry• Data Interpretation
Analytical Ability	<ul style="list-style-type: none">• Visual Reasoning• Statement and Conclusions• Relationships• Logical Reasoning• Attention to details,• Flow Chart
Pseudocode	<ul style="list-style-type: none">• Sequence• While• Repeat-until• For• If-then-else• Case

Common Applications and MS Office	<p>MS Word</p> <ul style="list-style-type: none"> • Creating, editing, saving and printing text documents • Font and paragraph formatting • Simple character formatting • Inserting tables, smart art, page breaks • Using lists and styles • Working with images • Using Spelling and Grammar check • Understanding document properties • Mail Merge <p>MS Excel</p> <ul style="list-style-type: none"> • Spreadsheet basics • Creating, editing, saving and printing spreadsheets • Working with functions & formulas • Modifying worksheets with color & autoformats
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	<ul style="list-style-type: none"> • Graphically representing data: Charts & Graphs • Speeding data entry: Using Data Forms • Analyzing data: Data Menu, Subtotal, Filtering Data • Formatting worksheets <p>MS Power Point</p> <ul style="list-style-type: none"> • Securing & Protecting spreadsheets • Opening, viewing, creating, and printing slides • Applying auto layouts • Adding custom animation • Using slide transitions • Graphically representing data : Charts & Graphs • Creating Professional Slide for Presentation.
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Coding	<ul style="list-style-type: none"> • Data types • Operators • Arrays • Strings • Decision Making • Looping • Functions • Scenario-based questions
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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. Lesle sold her tow 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

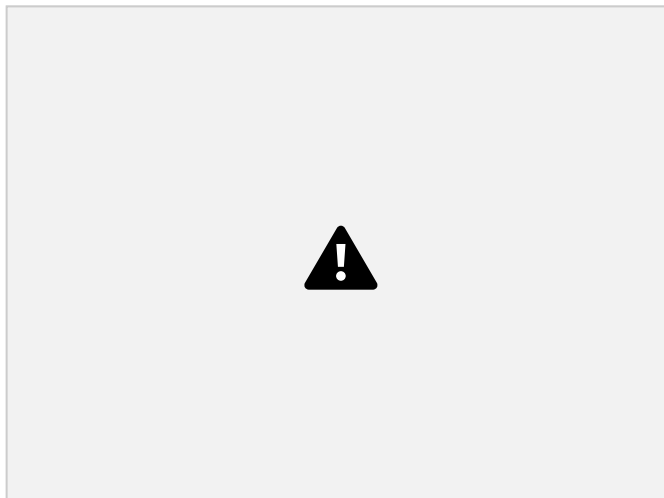
D. 26 cm

Answer: D

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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.



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

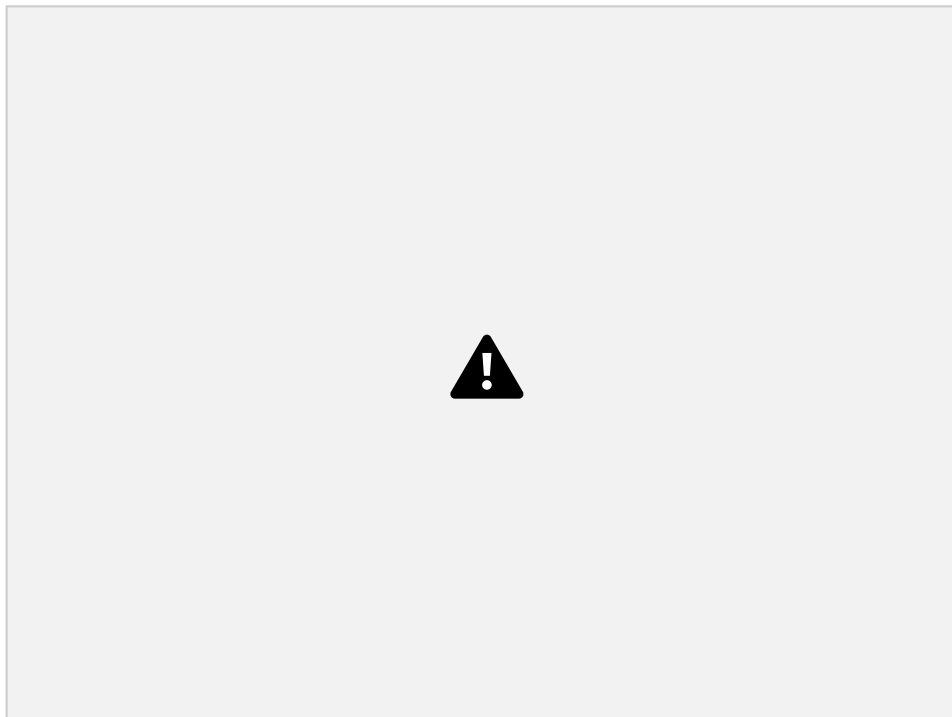
D. \$8,000

Answer: B

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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.



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

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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

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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 their 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