II - MID Examination (ISES - 212)

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Not **abhinavbnvs_garlapati@srmap.edu.in**? Switch account

Section - 2

1. What is the ten place digit in the expansion of 49^49 ?

○ 0

○ 1

○ 3

⦿ 4

Clear selection

2. If (p-1)! Divided by p remainder is p-1. Which of the following could be the value of P?

○ 21

⦿ 31

○ 51

○ 91

Clear selection

3. How many factors of 3600 are even and how many are multiples of 5?

- ● 36 and 30
- ○ 36 and 22
- ○ 24 and 30
- ○ 24 and 22

Clear selection

4. There are 100 students in a class. If 70 students like Physics and 65 students like Economics. Find the minimum number of students who like both the subjects.

- ○ 70
- ○ 65
- ● 35
- ○ 40

Clear selection

5. There are 100 students in a class. If 70 students like Physics and 65 students like Economics. Find the maximum number of students who like both the subjects.

- ○ 40
- ● 65
- ○ 50
- ○ 70

Clear selection

6. At a certain conference of 100 people, there are 29 Indian women and 23 Indian men. Of these Indian people, 4 are doctors and 24 are either men or doctors. There are no foreign doctors. How many women doctors are attending the conference?

- ⦿ 1
- ○ 2
- ○ 3
- ○ 4

Clear selection

7. At a certain conference of 100 people, there are 29 Indian women and 23 Indian men. Of these Indian people, 4 are doctors and 24 are either men or doctors. There are no foreign doctors. How many foreigners are attending the conference?

- ○ 51
- ○ 55
- ○ 52
- ⦿ 48

Clear selection

8. If G sits to the immediate left of D, then who will sit at the centre of the row?

Nine persons A, B, C, D, E, F, G, H and I are seated in a row. The seats are numbered from 1 to 9 from left to right as per the following restrictions.

C, F and I sit together.

E is to the immediate right of H.

B sits in the fourth seat from the left end and D sits in the third seat from the right end. E is not between B and D.

🔘 A

⭕ B

⭕ D

⭕ F

Clear selection

9. If F sits between C and I, then in how many ways these nine persons can be seated?

Nine persons A, B, C, D, E, F, G, H and I are seated in a row. The seats are numbered from 1 to 9 from left to right as per the following restrictions.

C, F and I sit together.

E is to the immediate right of H.

B sits in the fourth seat from the left end and D sits in the third seat from the right end. E is not between B and D.

⭕ 1

⭕ 2

⭕ 3

🔘 4

Clear selection

10. Who among the following is at one of the extreme ends of the row?

Nine persons A, B, C, D, E, F, G, H and I are seated in a row. The seats are numbered from 1 to 9 from left to right as per the following restrictions.

C, F and I sit together.

E is to the immediate right of H.

B sits in the fourth seat from the left end and D sits in the third seat from the right end. E is not between B and D.

○ C

◉ E

○ F

○ I

Clear selection

11. If I sits at one of the extreme ends and F sits to the immediate left of B, then in how many ways can all be seated, assuming that the other conditions remain the same?

Nine persons A, B, C, D, E, F, G, H and I are seated in a row. The seats are numbered from 1 to 9 from left to right as per the following restrictions.

C, F and I sit together.

E is to the immediate right of H.

B sits in the fourth seat from the left end and D sits in the third seat from the right end. E is not between B and D.

○ 1

◉ 2

○ 3

○ 4

Clear selection

12. If a man walks from his house at 5 km/ hr, he reaches office 5 minutes late. If he walks at 6 km/hr, he reaches 5 minutes early. Then the distance from his house to the office is

○ 3 km

○ 4 km

◉ 5 km

○ 6 km

Clear selection

13. A train travels at a uniform speed of 15 km/hr. If the speed had been 10 km/hr more, it would have taken 8 hours less to cover the distance between stations A and B. What is the distance (in km) between A and B?

○ 100

◉ 300

○ 250

○ 200

Clear selection

14. A man leaves a point P at 6 a.m. and reaches the point Q at 10 a.m. Another man leaves the point Q at 8 a.m. and reaches the point P at 12 noon. At what time do they meet if they travel at a constant speed?

- ⦿ 9 a.m
- ◯ 10 a.m
- ◯ 8.30 a.m
- ◯ 9:20 a.m

Clear selection

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15. Excluding stoppages, the average speed of a bus is 54 km/hr, and including stoppages it is 45 km/hr. For how many minutes does the bus stop per hour?

- ◯ 5 mins
- ⦿ 10 mins
- ◯ 12 mins
- ◯ 15 mins

Clear selection

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16. In a 500 m race, the ratio of the speeds of two contestants A and B is 2 : 3. If A has a start of 170 m, then A wins by

- ⦿ 5 m
- ◯ 10 m
- ◯ 15 m
- ◯ 20 m

Clear selection

17. A boat goes from point A to B in upstream and returns to A through the same path. If time of journey from A to B is twice that of from B to A, then the ratio of speed of the boat in still water to the speed of the current is:

- ◉ 3 : 1
- ○ 1 : 3
- ○ 2 : 1
- ○ Cannot be determined

Clear selection

18. A can complete a piece of work in 30 days and B can complete the same work in 20 days. If A and B started working together and A quit 5 days before the completion of the work, then for how long they worked together?

- ○ 8 days
- ○ 12 days
- ◉ 9 days
- ○ 5 days

Clear selection

19. If x and y are integers such that x > y > 0, how many integers are there between x and y, excluding x and y?

○ x − y

● x − y − 1

○ x + y

○ x + y − 1

Clear selection

20. Consider four-digit numbers for which the first two digits are equal and the last two digits are also equal. How many such numbers are perfect squares?

○ 3

○ 2

○ 0

● 1

Clear selection

21. The sequence 2, 3, 5, 6, 7, 10, ... consists of all natural numbers that are neither perfect squares nor perfect cubes. Find the 76th term of this sequence.

○ 89

● 87

○ 86

○ 88

Clear selection

22. How many factors of 1296 have exactly three factors?

○ 1

◉ 2

○ 3

○ 4

Clear selection

23. Find the least number which when divided by 6, 15 and 17 always leaves a remainder 1, but when divided by 7 leaves no remainder.

○ 211

◉ 511

○ 1021

○ 86

Clear selection

24. Two jars contain milk and water in the ratio 5 : 4 and 2 : 1 respectively. What volume should be taken out from the first jar and second jar so as to fill up a third 30 L jar with milk to water in the ratio 1 : 1?

○ 7.5 L

○ 15 L

○ 22.5 L

◉ Impossible situation

Clear selection

25. A vessel contains 180 L wine. 60 L is taken out of the vessel every day and an equal volume of water is put in it. What volume of wine remains in the vessel at the end of 3 days?

◉ 160/3 L

◯ 20/3 L

◯ 80 L

◯ 35 L

Clear selection

26. A solution contains 20 L of pure milk. 20% of this is taken out. Another 20% of the remaining solution is taken out and finally 20% of the solution left is taken out. The total amount of solution taken out is replaced with water. Find the ratio of milk to water in the final solution.

◯ 1 : 5

◯ 12 : 38

◯ 488 : 512

◉ 512 : 488

Clear selection

27. What was the approximate average profit during the given period?

The following line graph gives information regarding the cost incurred and profit earned in different years by the organisation XYZ Ltd.
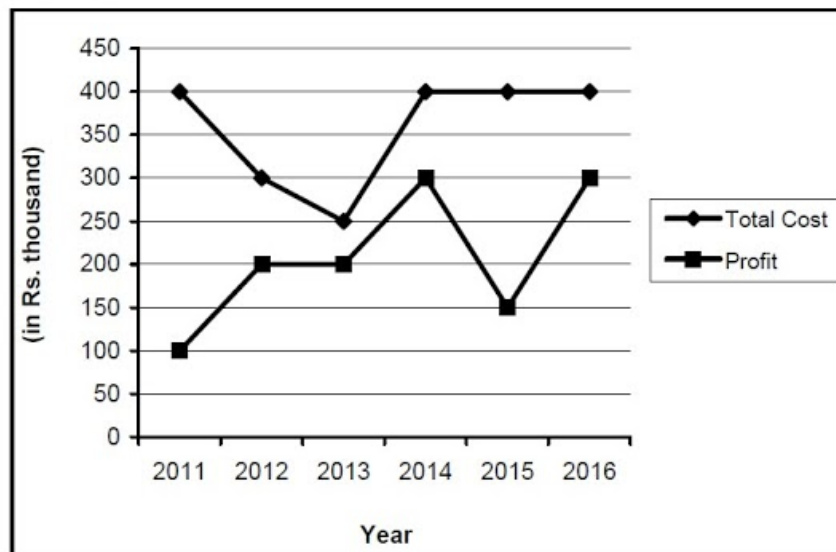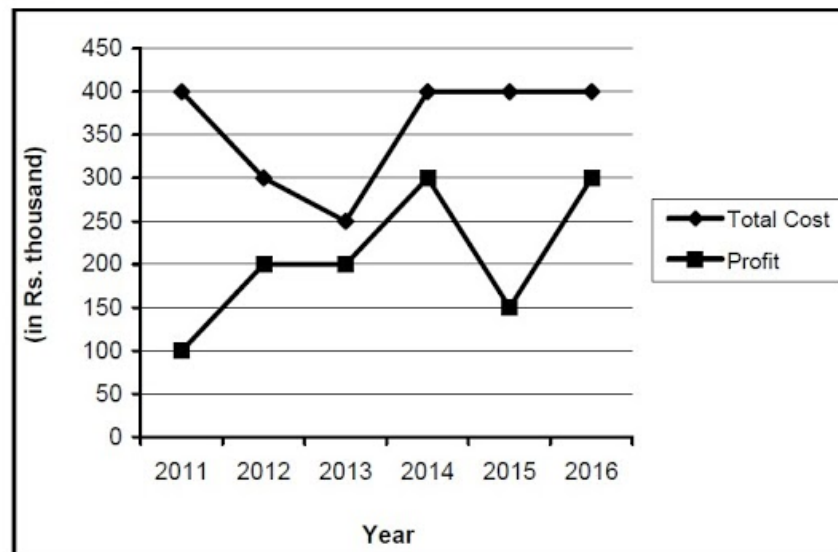

Revenue = Total Cost + Profit

○ Rs. 196 thousands

○ Rs. 225 thousands

○ Rs. 216 thousands

◉ Rs. 208 thousands

Clear selection

28. What was the revenue earned by XYZ Ltd. in the year 2012?

The following line graph gives information regarding the cost incurred and profit earned in different years by the organisation XYZ Ltd.
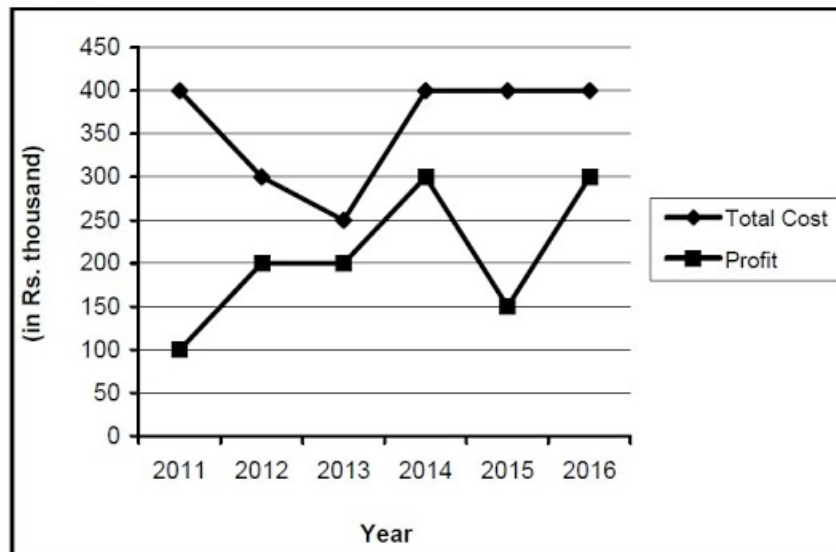

Revenue = Total Cost + Profit

○ Rs. 500

○ Rs. 5,00,00,000

◉ Rs. 5,00,000

○ None of these

Clear selection

29. During the period of 2011 to 2016, which year experienced the maximum increase in the profit in comparison to its previous year?

The following line graph gives information regarding the cost incurred and profit earned in different years by the organisation XYZ Ltd.
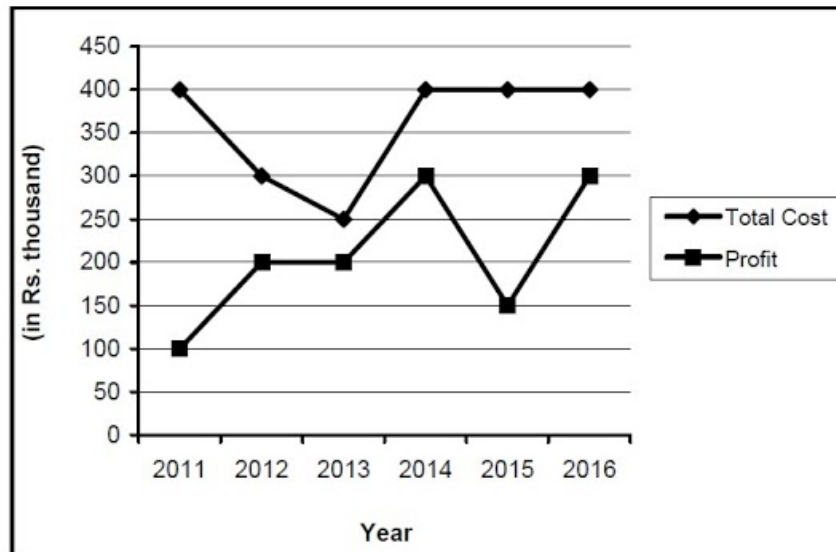

Revenue = Total Cost + Profit

○ 2014

○ 2011

○ 2015

◉ 2016

Clear selection

30. In which year was profit as a percentage of total cost the maximum?

The following line graph gives information regarding the cost incurred and profit earned in different years by the organisation XYZ Ltd.

Revenue = Total Cost + Profit

○ 2012

◉ 2013

○ 2014

○ 2015

Clear selection

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