



## Computer Society Of India

C. 46

D. 47

9. When Rs 250 added to  $\frac{1}{4}$ th of a given amount of money makes it smaller than  $\frac{1}{3}$ rd of the given amount of money by Rs 100. What is the given amount of money?

A. 350

B. 600

C. 4200

D. 3600

10. 45 people  $\{a_1, a_2, a_3, \dots, a_{45}\}$  meet and shake hands in a circular fashion. In the pairs,  $\{a_1, a_2\}, \{a_2, a_3\}, \dots, \{a_{44}, a_{45}\}, \{a_{45}, a_1\}$ . Then size of the smallest set of people such that the rest have shaken hands with at least one person in the set is

A. 12

B. 10

C. 18

D. 15

11. Alex and Birt play the following min-max game. Given the expression  $N = 15 + X*(Y - Z)$  Where X, Y and Z are variables representing single digits (0 to 9), Alex would like to maximize N while Birt would like to minimize it. Towards this end, Alex chooses a single digit number and Birt substitutes this for a variable of her choice (X, Y or Z). Alex then chooses the next value and Birt, the variable to substitute the value. Finally Alex proposes the value for the remaining variable. Assuming both plays to their optimal strategies, the value of N at the end of the game would be?

A. 18

B. 15

C. 13

D. 20

12. John buys a cycle for 31 dollars and given a cheque of amount 35 dollars. Shop Keeper exchanged the cheque with his neighbor and gave change to John. After 2 days, it is known that cheque is bounced. Shop keeper paid the amount to his neighbor. The cost price of cycle is 19 dollars. What is the profit/loss for shop keeper?

A. Gain 23 dollars

B. Loss 23 dollars

C. Gain 54 dollars

D. Loss 54 dollars

13. The IT giant InfoGel has recently crossed a head count of 150000 and earnings of \$7 billion. As one of the forerunners in the technology front, InfoGel continues to lead the way in products and services in India. At InfoGel, all programmers are equal in every respect. They receive identical salaries and also write code at the same rate. Suppose 12 such programmers take 12 minutes to write 12 lines of code in total. How many lines of code can be written by 72 programmers in 72 minutes?

A. 172

B. 432

C. 12

D. 144

14. The bacteria grow in exponential manner, the bacteria proportion at 3.00 P.M is 300 then at 7.00 P. M it raise to 153600. By how much will be the proportion of bacteria at 10.00 P.M?

A. 39321400

B. 39321500

C. 39321600

D. 39321700

15. The lowest temperature in the night in a city A is  $\frac{1}{3}$  more than  $\frac{1}{2}$  the highest during the day. Sum of the lowest temperature and the highest temperature is 100 degrees. Then what is the lowest temp?

A. 40 degrees

B. 60 degrees

C. 50 degrees

D. 30 degrees

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16. 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?

A. 2

B. 4

C. 3

D. 1

17. Ten years ago, the ages of the members of a joint family of eight people added up to 231 years. Three years later, one member died at the age of 60 years and a child was born during the same year. After another three years, one more member died, again at 60, and a child was born during the same year. The current average age of this eight member joint family is nearest to:

A. 21

B. 24

C. 25

D. 22

18. A bag contains 3 white balls and 2 black balls. Another bag contains 2 white and 4 black balls. A bag and a ball are picked random. The probability that the ball will be white is

A. 7/11

B. 7/30

C. 5/11

D. 7/15

19. In a mixture of 35 litre, the ratio of petrol to alcohol is 4:1. If 7L alcohol is added to the mixture, the ratio of petrol to alcohol changes to a new ratio. If we want the ratio of petrol to alcohol to change back to the original value, how much petrol is to be added now?

A. 28

B. 35

C. 21

D. 32

20. Ajay buys a refrigerator at 20% discount on the list price and sells it at 5% profit. At what percent below the list price did she sell the refrigerator?

A. 15%

B. 18%

C. 20%

D. 16%

21. At the end of two years, what is the difference between the compound interest and the simple interest accrued on Rs 5000, at a rate of 6%?

A. Rs 64

B. Rs 32

C. Rs 320

D. Rs 640

22. A cuboid has a volume of 64 cubic units. Find the minimum possible value (in units) of the sum of the lengths of the edges of the cuboid.

A. 36

B. 40

C. 48

D. 42

23. A survey shows that 61%, 46% and 29% of the people watched '3 idiots', 'Rajneeti' and 'Avtaar' respectively. 25% people watched exactly two of the three movies and 3% watched none. What percentage of people watched all the three movies?

A. 39%

B. 11%

C. 14%

D. 7%

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24. A thin rectangular strip of cloth which is 80cm long is cut into 3 pieces along its length. The longest piece is 3 times as long as the middle sized piece and the shortest piece is 46cm shorter than the longest piece. Find the length of the shortest piece.

A. 54cm

B. 10cm

C. 8cm

D. 18cm

25. A regular pyramid has a square base with side 10 cm and a vertical height of 20 cm. If the height increases by 10% of its original value and the volume is constant, the percentage change in the side of the square base with respect to its original value is approximately:

A. -5%

B. +10%

C. +5%

D. -10%

26. Sachin is younger than Rahul by 7 years. If their ages are in the respective ratio of 7:9, how old is Sachin?

A. 16

B. 24.5

C. 28

D. 18

27. If the ratio of work done by  $(x-1)$  men in  $(x+1)$  days to the work done by  $(x+2)$  men in  $(x-1)$  days is 9:10, then  $x$  is equal to?

A. 16

B. 24.5

C. 28

D. 18

28. Which of the following will come in place of the Question mark (?) in the following sequence?  
6C7, 8F10, 11J14, 15O19, ?.

A. 25U20

B. 20U25

C. 20U24

D. 19U25

29. Pointing to a photograph Arun said, 'she is the mother of my brother's son's wife's daughter'. How is Arun related to the lady?

A. Aunty

B. Daughter-in-law

C. Cousin

D. None of these

30. I am facing west. I turn  $45^\circ$  in the clockwise direction and the  $180^\circ$  in the same direction and the  $270^\circ$  anticlockwise. Which direction am I facing now?

A. South-west

B. South

C. West

D. North-west