

1) Six square plots are connected end to end to obtain a rectangular plot area 726 m^2 . If we take, $\pi=22/7$, by what factor is the perimeter of this plot more than that of the circumference of a circle of radius 10m?

- A. 1.45
- B. 2.45
- C. 2.1
- D. 2.8

2) If n is an integer such that $1nn352$ is a six-digit number exactly divisible by 24, what will be the sum of the possible values of n ?

- A. 15
- B. 27
- C. 6
- D. 21

3) If $(x+10)\%$ of 240 is 60% more than $x\%$ of 180, then 15% of $(x+20)$ is what percent less than 25% of x ?

- A. 16
- B. 15
- C. $15 \frac{1}{2}$
- D. 19

4) Given below is a question followed by two statements I and II, each containing some information. Decide which of the statements is/are sufficient to answer the question.

The ratio of fees of two different schools is 2: 2.5. What would be the fees of the second school if discounts of 25% and 35% are given on both the schools respectively?

Statements:

- I. Discount on the second school fees is Rs.8750/-.
 - II. Difference between the discount on the two school fees is Rs.3750/-.
- A. Both statements I and II together are not sufficient.
 - B. Statement I alone is sufficient.
 - C. Either Statement I alone or Statement II alone is sufficient.
 - D. Statement II alone is sufficient.

5) Two ants of length 1 cm and 1.2 cm crawl in opposite directions with average speeds 2 and 1 mm per second respectively. How many seconds will they take to cross each other?

- A. 4.4
- B. 2.8
- C. 7.3
- D. 1.5

6) The mean of 29 observations is 33 on adding one more observation. The new mean becomes 34. What is the value of the 30th observation?

- A. 55
- B. 63
- C. 68
- D. 34

7) A shopkeeper calculated his profit as 12% with the selling price of an article as the Base. What would have been his actual profit percentage if the selling price was 20% more?

- A. 36.36
- B. 24.72
- C. 23.56
- D. 48.66

8) Raju lends Rs. 3000 to Bharath and a certain sum to Charan at the same time at 6% per annum simple interest. If after 5 years, Raju altogether receives Rs. 1650 as the interest from Bharath and Charan, what is the sum lent to Charan?

- A. Rs. 2500
- B. Rs. 2750
- C. Rs. 3250
- D. Rs. 3300

9) Among 5 objects P,Q,R,S and T

- i. R is twice as heavy as T
- ii. S is one and half times as heavy as Q
- iii. Q and R together weigh as much as S and T together
- iv. P and S together are one and half time as heavy as Q and T together

Which among the five is the heaviest of all?

- A. Q
- B. S
- C. P
- D. R

10) In a certain case, $P + Q$ means P is the father of Q; $P - Q$ means P is the sister of Q and P / Q means P is the brother of Q. Which of the following equations shows that A is the uncle of D?

- A. $A - D + C / B$
- B. $A + B / C - D$
- C. $A / B + C - D$
- D. $A - B + C / D$

11) A housewife saved Rs. 3 in buying an item on sale. If she spent Rs. 22 for the item, approximately how much percent she saved in the transaction ?

- a)11
- b) 12
- c) 15
- d)17

12) The price of a T.V. set is decreased by 30% as a result of which the sale is increased by 20%.What will be the effect on the total revenue of the shop?

- (a)16% decrease
- (b)16% increases
- (C)24% increases
- (d)10% Decrease

13) What is the last digit of $(45)^{52} - (62)^{112} + (116)^{286}$

- (a) 4
- (b)2
- (c) 8
- (d)5

14) Ramesh, Abhijeet and Ajay are eligible to be the captain of the cricket team. Shaid, John, Shisir and Nitin are eligible to be the co-captain. How many possible outcomes are there for choosing a captain and a co-captain?

- a. 12
- b. 7
- c. 9
- d. 16

15) Mumbai Rajdhani express takes 16 hours to reach Mumbai from Delhi while Swaraj express takes 20 hours. The ratio of the speeds of both the trains is:

a. 1:4

b. 4:5

c. 5:4

d. 3:2