

**QUANTITATIVE APTITUDE TEST**

**Directions (Q. 1-3):** What will come in the place of question mark (?) in the following questions?

1.  $(6)^4 \div (36)^3 \times 216 = 6^{(?-5)}$

- (A) 4 (B) 6  
(C) 7 (D) 1  
(E) None of these

2.  $\frac{4}{9}$  of  $\frac{3}{5}$  of 4500 -  $\frac{2}{3}$  of  $\frac{1}{7}$  of  $\frac{2}{9}$  of 1890 = ?

- (A) 1160 (B) 1180  
(C) 1240 (D) 1460  
(E) 1280

3.  $12\frac{3}{5} - 39\frac{2}{3} + 76\frac{1}{4} = ? + 20.46$

- (A) 48 (B) 35  
(C) 40 (D) 29  
(E) 50

**Directions (Q. 4 – 5):** In each of the following questions, two equations are given. You have to solve them and

- (A) If  $x > y$   
(B) If  $x \geq y$   
(C) If  $x < y$   
(D) If  $x \leq y$   
(E) If  $x = y$  or relationship cannot be established

4. I.  $x^2 + 14x + 49 = 0$

II.  $y^2 + 9y = 0$

5. I.  $9x^2 - 29x + 22 = 0$

II.  $7y^2 - 7y - 12 = 0$

**Directions (Q. 6 – 7):** What approximate value will come in place of question mark(?) in following questions?

6. 2, 12, 36, 80, 150, ?

- (A) 175 (B) 252  
(C) 322 (D) 424  
(E) None of these

7. 59049, 19683, 6561, 2187, ?

- (A) 1133 (B) 947  
(C) 881 (D) 729  
(E) 664

8. A man, a woman and a boy can complete a work in 5 days, 7 days and  $8\frac{3}{4}$  days respectively. How many boys must assist a man and a woman to complete the work in  $\frac{1}{4}$  day.

- (A) 32 (B) 25  
(C) 39 (D) 28  
(E) 30

9. The ratio of zinc to copper in a mixture is 5 : 7. If there is 30% impurity in zinc and there is 35% impurity in copper then what is the percentage of pure metal in the mixture ?

- (A) 60.04% (B) 79.83%  
(C) 65% (D) 67.08%  
(E) 62.24%

10. A bag contains 6 pink and 4 blue box. Four box are drawn out one by one and not replaced. What is the probability that they are alternatively of different colours?

- (A)  $\frac{1}{14}$  (B)  $\frac{1}{7}$   
(C)  $\frac{2}{7}$  (D) Other than given options  
(E)  $\frac{3}{7}$

11. A person goes his office by bus at a speed of 60 km/hr and return to the house at a speed 40 km/hr. If he takes 40 minutes in all, what is the distance between the office and his house?

- (A) 20 km (B) 24 km  
(C) 16 km (D) 18 km  
(E) Other than given options

12. Vinny was married 15 years ago. Today his age is  $1\frac{3}{5}$  times to that at the time of marriage. At present his son's age is  $\frac{1}{6}$ th of his age. What was his son's age 4 years ago?

- (A) 2 years (B) 3 years  
(C) 5 years (D) 6 years  
(E) Cannot be determined

13. Two vessels contain water and milk in the ratio 2 : 3 and 1 : 2. In which ratio the contents of the two vessels have to be mixed to get a new mixture which contains the water and milk in ratio 3 : 5.

- (A) 1 : 2 (B) 2 : 3  
(C) 3 : 2 (D) 5 : 3  
(E) None of the above

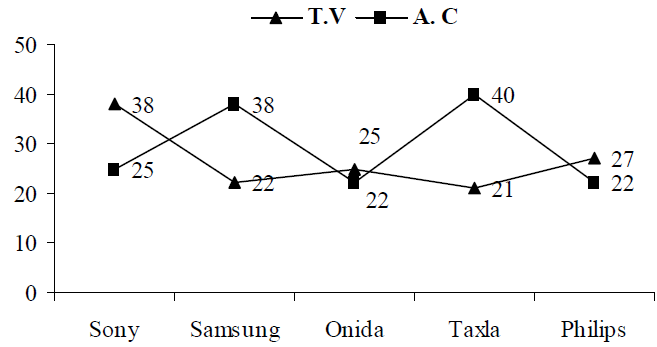
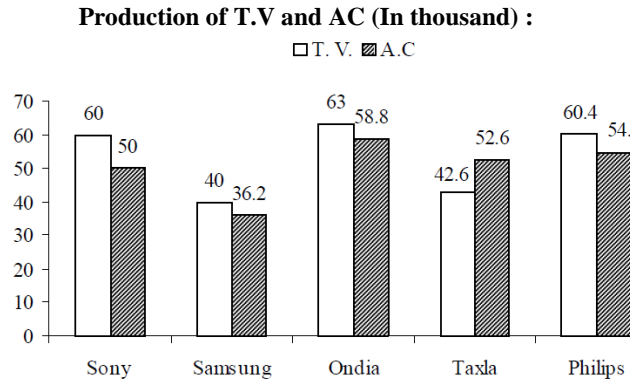
14. A sum of money becomes eight times in 4 years, if the rate is compounded annually. In how much time the same amount at the same compound interest rate will become sixteen times?

- (A) 6 years (B) 4 years  
(C) 8 years (D) 5 years  
(E) None of these

15. A boat running downstream takes 6 hours to cover a certain distance, while it takes 8 hours 24 minutes to cover the same distance running upstream. What is the ratio between the speed of the boat and speed of the water current respectively?

- (A) 5:2 (B) 6:1  
(C) 7:3 (D) 7:2  
(E) 2:5

*Directions (Q. 16 – 20): Study the following graph carefully and answer the questions that follow :*



**Percentage of exported T.V and AC's :**

**16.** Average T.V produced by all the companies is –

- (A) 50000
- (B) 51600
- (C) 53200
- (D) 58900
- (E) 60000

**17.** What is the average number of AC's exported by Sony, Onida and Philips ?

- (A) 12400
- (B) 12600
- (C) 12468
- (D) 12500
- (E) 13500

**18.** What is the respective ratio between T.V exported by Samsung, Onida and AC's exported by same companies ?

- (A) 430 : 500
- (B) 600 : 331
- (C) 421 : 331
- (D) 331 : 421
- (E) None of these

**19.** Total T.V produced by Sony, Samsung and Onida is how much more than T.V produced by Taxla and Philips ?

- (A) 72000
- (B) 60000
- (C) 61320
- (D) 60580
- (E) None of these

**20.** AC's exported by Taxla and Philips is what per cent more/less than the AC's exported by Sony and Samsung ?

- (A) 15 %
- (B) 30 %
- (C) 20 %
- (D) 25%
- (E) 40 %

