

Q 1. A dealer deals only in Music systems and LED TV. He wants to spend up to ₹12 lakhs to buy 100 pieces. He purchases a Music system at Rs.10,000 and a LED TV at ₹15,000 each. He sells a Music system at ₹12,000 and a LED TV at ₹17,500 each. If the LED TV was sold at ₹ 12,500. What will be the profit or loss percent?

- a. 16.67%
- b. 21%
- c. 20%
- d. None of the above
- e. Cannot be determined

Directions (2-3): Find what comes in place of question mark (?) in the given number series:

Q 2. 432 396 371 355 ?

- a. 350
- b. 351
- c. 342
- d. 333
- e. 321

Q 3. 256 ? 516 1551 6208 31045

- a. 312
- b. 417
- c. 288
- d. 257
- e. None of the above

Directions (4-6): Read the information given below and answer the following questions:  
The table below shows the information regarding the number of students who got admission in four colleges in four different faculties.

Colleges	Faculty			
	Arts	Engineering	Medical	Commerce
College A	5500	2100	3200	1500
College B	1700	2300	5640	1250
College C	870	1580	2200	1202
College D	450	980	1450	2750

Q 4. What is the total number of students enrolled in the Arts faculty?

- a. 12,300
- b. 8520
- c. 12,540
- d. 8650
- e. None of the above

Q 5. What is the ratio of the number of students enrolled in commerce faculty in college A to the number of students enrolled in the engineering faculty in college B?

- a. 23:15
- b. 5:3
- c. 3:5
- d. 15:23
- e. 4:7

Q 6. What are the average number of students enrolled in college C in all the four faculties together?

- a. 1462
- b. 1463
- c. 1464
- d. 1500
- e. 1422

Q 7. What will come in place of question mark (?). Give an approximate value  
 $1884 \div 145.01 + 7.01 + ?^2 = 68.99$

- a. 5
- b. 49
- c. 25
- d. 7
- e. 36

Q 8. Three years ago, Arpan's age was equal to the sum of the present ages of his one son and one daughter. Three years ago, the respective ratio between the ages of his daughter and his son that time was 12:13. If Arpan's sister is 5 years younger to him and her present age is twice the present age of Arpan's daughter, what is the present age of Arpan's son?

- a. 15 years
- b. 21 years
- c. 12 years
- d. Cannot be determined
- e. None of the above

Q 9. As per the given equation, marks the correct answer:

Equation I:  $a^2 + 5a + 6 = 0$

Equation II:  $b^2 + 3b + 2 = 0$

- a.  $a > b$
- b.  $b > a$
- c.  $a = b$
- d.  $a \leq b$
- e.  $a \geq b$

Directions (10-11). What will come in place of question mark (?) in the following number series?

Q10: 1 7 36 145 ?

- a. 435
- b. 456
- c. 356
- d. 336
- e. 436

Q11: 2 3 7 16 ?

- a. 36
- b. 16
- c. 32
- d. None of the Above
- e. 30

Directions (12-14). Read the data in the table carefully and answer the following questions:

The table below gives details of the number of boys and girls from five different colleges who went for a trip to Japan. Answer the given questions based on the data given in the table:

College	Number of Boys	Number of Girls
A	462	315
B	235	198
C	290	436
D	133	362
E	150	266

Q12. What is the average number of boys from college A, C and E, who went for the trip?

- a. 300.50
- b. 306.00
- c. 300.67
- d. 301.11
- e. None of the Above

Q13. What are the total number of students from college A and D together (boys & girls), who went on the trip?

- a. 1272
- b. 1223
- c. 1277
- d. 1273
- e. 1225

Q14. What is the ratio of number of girls who went from college A to the number of boys from college E?

- a. 10:21
- b. 15:14
- c. 14:15
- d. 21:10
- e. 2:3

Q15. Ratio of earning of X and Y is 8:9 respectively. If the earnings of X is decreased by 50% and the earning of Y increases by 25%, the new ratio of their earnings becomes 16:9 respectively. What are the earnings of X?

- a. ₹24,000
- b. ₹43,000
- c. Cannot be determined
- d. ₹22,000
- e. None of the above

Q16. The below mentioned questions are followed by three statements. Read the data carefully in the three statements and decide the information in which of the statements is/are necessary and sufficient to answer the question?

What is the ratio of the present ages of Sarah and Ashima?

- 1. The difference of their present ages is 15 years
  - 2. 10 years ago, the sum of their ages was three times Ashima's age at that time
  - 3. After 5 years, the respective ages of Sarah and Ashima would be 3:2
- a. Only 1
  - b. Both 1 and 2
  - c. Only 2
  - d. Both 2 and 3
  - e. Any two of the three

Q17. What will come in place of question mark (?). Find an approximate value

$$6895.01 + 5024.99 + 599.98 = ?$$

- a. 12521
- b. 12520
- c. 12522
- d. 12523
- e. 12531

Q18: What total amount would Mithesh get at the end of two years if he invests an amount of ₹15,400 in a scheme which offers simple interest at the rate of 10.5 percent per annum for two years?

- a. ₹3234
- b. ₹13425
- c. ₹18,634
- d. ₹18,452
- e. ₹3224

Q19. Point S is 10m to the North of Point T. Y is 4m to the East of Point T. Z is 6m to the East of point V which is 6m to the North of point Y. What is the shortest distance between Y and Z in meters?

- a.  $5\sqrt{2}$
- b.  $7\sqrt{6}$
- c.  $6\sqrt{2}$
- d.  $5\sqrt{2}$
- e.  $3\sqrt{6}$

Q20. The circumference of two circles is 176 metres and 440 metres respectively. What is the difference between the area of the larger and smaller circle?

- a. 2464 sq. cm

- b. 12936 sq. cm
- c. 12435 sq. cm
- d. 11435 sq. cm
- e. None of the above

Q21: Two married couples along with three children live in a house. The average age of the two women in the house is 34 years and that of the two men is 65 years. The average age of the three children is 8 years. What will be the average age of all the people living in that house?

- a. 33
- b. 35
- c. 31
- d. 34
- e. 32

Q22: Amrita invested an amount of ₹60,000 to start a grocery shop. After six months, Arvind joined her with an amount of ₹90,000. After one year from the inauguration of the store, Amrita put in an additional amount of ₹20,000. At the end of three years, they earned a profit of ₹71,20,000. What is Amrita's share in the profit?

- a. ₹6542000
- b. ₹4234000
- c. ₹3520000
- d. Cannot be determined
- e. None of the above

Q23: A bike covers the first 38 km of its journey in 45 minutes and covers the remaining 34 km in 45 minutes. What is the average speed of the bike in km/hr?

- a. 48 km/hr
- b. 32 km/hr
- c. 44 km/hr
- d. 45 km/hr
- e. None of the above

Directions (24-26): Read the data given in the table and answer the following questions:

The table gives details about the number of students studying in different faculties in five different cities:

Cities	Number of students			
	Arts	Science	Commerce	Medical
<b>Mumbai</b>	125	100	122	54
<b>Chennai</b>	110	95	44	99
<b>Delhi</b>	67	88	92	115
<b>Lucknow</b>	112	77	84	91
<b>Kolkata</b>	56	32	117	82

Q24: What are the total number of students studying in the Arts faculty in all five cities?

- a. 470
- b. 420
- c. 471
- d. 477
- e. 550

Q25: What is the average number of students studying in Lucknow?

- a. 84
- b. 90
- c. 88
- d. 91
- e. None of the above

Q26: What is the ratio of the number of students in the Medical faculty to the number of students in Commerce faculty?

- a. 49:51
- b. 51:49
- c. 442:459
- d. 459:442
- e. None of the above

Directions (27-28): In the given number series find the wrong number among the given options:

Q27: 451 414 389 373 364

- a. 414
- b. 389
- c. 451
- d. 373
- e. 364

Q28: 2 5 13 27 58

- a. 5
- b. 13
- c. 27
- d. 2
- e. 58

Q29. The present ratio between the present age of Ankita and Devika is 5:x. Ankita is 9 years younger than Anamika. Anamika's age after 9 years will be 33 years. The difference between Devika and Ankita's age is the same as the present age of Anamika. What will come in place of x?

- a. 15
- b. 3
- c. 21
- d. Cannot be determined
- e. None of the above

Q30. An urn contains 4 green, 5 blue, 2 red and 3 yellow marbles. If three marbles are drawn from the urn, what is the probability that all three are green?

- a. 5/17
- b. 6/7
- c. 4/7
- d. Cannot be determined
- e. None of the above

Directions (31-33): Study the table given below and the following questions:

The table shows the total number of people visiting different cities and the percentage of men and women visiting those cities:

Name of Cities	Total number of People	Percentage of Men	Percentage of Women
Mumbai	35500	45	55
Delhi	42500	70	30
Chennai	50500	40	60
Kolkata	60000	75	25
Chandigarh	45000	35	65

Q31. What is the total number of women who visited Mumbai and Chennai together?

- a. 49625
- b. 49825
- c. 54234
- d. 33540
- e. 48825

Q32. What is the ratio of men visiting Chandigarh to the women visiting Kolkata?

- a. 21:20
- b. 13:20
- c. 64:60
- d. 20:21
- e. 20:13

Q33. What is the total number of male visitors who visited Delhi and Chandigarh together?

- a. 34500
- b. 45000
- c. 45500
- d. 54500
- e. 55000

Q34. The speed of a truck is 70 km/hr. In how many hours will the truck cover 345 km, if the speed of the truck is increasing every 2 hours by 10 km/hr.

- a. 3 hours 45 minutes
- b. 4 hours 45 minutes
- c. 2 hours 25 minutes
- d. 4 hours
- e. 4 hours 30 minutes

Q35. A person invested ₹24,000 and compound interest is to be calculated for the same amount for 112 year at 10% per annum when compounded half-yearly

- a. ₹3783
- b. ₹3782
- c. ₹3773
- d. ₹3772
- e. None of the above

Q36. What will come in place of question mark (?) :  $16.01 \times 10.10 - \sqrt{624.99} - 16.98 \times 2.01 = ?$

- a. 144
- b. 95
- c. 100
- d. 121
- e. 110

Q37. If the numerator of a fraction is increased by 150% and the denominator is increased by 200%, the resultant fraction is  $\frac{5}{18}$ . What is the original fraction?

- a.  $\frac{2}{3}$
- b.  $\frac{1}{3}$
- c.  $\frac{1}{2}$
- d.  $\frac{1}{4}$
- e.  $\frac{2}{5}$

Q38. The sum of the perimeter of a square and circumference of a circle is 256. The diameter of the circle is 28 cm. What is the sum of the area of the circle and area of the square?

- a. 2395 sq. cm
- b. 2380 sq. cm
- c. 3395 sq. cm
- d. Cannot Be determined
- e. None of the above

**Directions (39-40):** What will come in place of question mark (?) in the following questions?

Q39. 5 11 34 137 ?

- a. 685
- b. 785
- c. 585
- d. 686
- e. None of the above

Q40. 2 6 14 30 ?

- a. 66
- b. 53
- c. 52
- d. 120
- e. 62