

1. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:
A. 15 B. 16 C. 18 D. 25
2. A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20%?
A. 3 B. 4 C. 5 D. 6
3. The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?
A. 76 kg B. 76.5 kg C. 85 kg D. Data inadequate
4. The average age of husband, wife and their child 3 years ago was 27 years and that of wife and the child 5 years ago was 20 years. The present age of the husband is:
A. 35 years B. 40 years C. 50 years D. None of these
5. A car owner buys petrol at Rs.7.50, Rs. 8 and Rs. 8.50 per litre for three successive years. What approximately is the average cost per liter of petrol if he spends Rs. 4000 each year?
A. Rs. 7.98 B. Rs. 8 C. Rs. 8.50 D. Rs. 9
6. Rajeew buys good worth Rs. 6650. He gets a rebate of 6% on it. After getting the rebate, he pays sales tax @ 10%. Find the amount he will have to pay for the goods.
A. Rs. 6876.10 B. Rs. 6999.20 C. Rs. 6654 D. Rs. 7000
7. A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?
A. Rs. 375 B. Rs. 400 C. Rs. 600 D. Rs. 800
8. How much time will it take for an amount of Rs. 450 to yield Rs. 81 as interest at 4.5% per annum of simple interest?
A. 3.5 years B. 4 years C. 4.5 years D. 5 years
9. A man took loan from a bank at the rate of 12% p.a. simple interest. After 3 years he had to pay Rs. 5400 interest only for the period. The principal amount borrowed by him was:
A. Rs. 2000 B. Rs. 10,000 C. Rs. 15,000 D. Rs. 20,000
10. Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?
A. $\frac{1}{2}$ B. $\frac{3}{4}$ C. $\frac{3}{8}$ D. $\frac{5}{1}$
11. In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected, is:
A. $\frac{21}{46}$ B. $\frac{25}{117}$ C. $\frac{1}{50}$ D. $\frac{3}{25}$
12. In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?
A. 360 B. 480 C. 720 D. 5040
13. In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together?
A. 810 B. 1440 C. 2880 D. 50400
14. Tea worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1 : 1 : 2. If the mixture is worth Rs. 153 per kg, the price of the third variety per kg will be:

A. Rs. 169.50

B. Rs. 170

C. Rs. 175.50

D. Rs. 180

15. A can contains a mixture of two liquids A and B is the ratio 7 : 5. When 9 liters of mixture are drawn off and the can is filled with B, the ratio of A and B becomes 7 : 9. How many liters of liquid A were contained by the can initially?

A. 10

B. 20

C. 21

D. 25

16. Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?

A. 7

B. 10

C. 12

D. 13

17. 53, 53, 40, 40, 27, 27, ... What number should come next?

A. 12

B. 14

C. 27

D. 53

18. Window is to pane as book is to

A. novel

B. glass

C. cover

D. page

19. SCD, TEF, UGH, ____, WKL

A. CMN

B. UJI

C. VIJ

D. IJT

20. CMM, EOO, GQQ, ____, KUU

A. GRR

B. GSS

C. ISS

D. ITT

21. P.Gopichand is associate with:

1) Tennis

2) Golf

3) Badminton

4) Hockey

5) Squash

22. Which oxide of nitrogen is formed when ammonium nitrate is heated?

1) NO

2) NO₂

3) N₂O

4) N₂O₅

5) O₂

23. Energy in the sun is produced as a result of:

1) Fusion

2) Combustion

3) Explosion

4) Thermo nuclear Fission

5) Friction

24. Ampere is used to measure:

1) Temperature

2) Current

3) Light

4) Weight

5) None of these

25. If $f(x)$ is a polynomial of degree n and $f(x) = f(x+h) - f(x)$, then $\Delta^n f(x)$ is a polynomial of degree-

1) n

2) $n-1$

3) $1-n$

4) 1

5) $n-2$

26. The strongest reducing agent among the following acids is:

1) Formic acid

2) Acetic Acid

3) Propionic Acid

4) Chloro Acetic Acid

5) Nitric Acid

27. The amount of heat required to convert 5 gms of ice at -20°C to steam at 100°C is:

1) 675 calorie 2) 3775 calorie 3) 3650 calorie 4) 3725 calorie 5) 400 calorie

28. Princess Diana was killed in a car accident in:

1) UK 2) Italy 3) France 4) Russia 5) Spain

29. If 9th quantity of a radio active element decays in one hour, its half life 4 periods will be:

1) 2 hours 2) 3 hours 3) 4 hours 4) 5 hours 5) None of the above

30. Bernoulli's theorem is applicable to-

1) Flow of liquids 2) Viscosity 3) Surface tension 4) Static fluid pressure 5) elasticity

31. Tulsidas became famous during the reign of-

1) Sher shah suri 2) Humayun 3) Shahjahan 4) Akbar 5) Jehangir

32. The co-efficient of correlation between two variables x and y is 0.5, and their co-variance is 16. If the standard deviation of x is 4, then the standard deviation of y is-

1) 4 2) 16 3) 64 4) 8 5) 2

33. Amino acids are produced by the hydrolysis of-

1) Fat 2) Carbohydrates 3) Proteins 4) Nucleic Acid 5) All of the above

34. The colors of thin film result due to-

1) desparation of light 2) scattering of light 3) polarization of light 4) selective absorption of light
5) Interference of light

35. The series 'BDFH' is related to 'JLNP' in the same way as "RTVX" is related to-

1) YZAB 2) STMN 3) ZBDF 4) ZBFD 5) None of these

36. "The Sphinx" is located in-

1) Egypt 2) Iraq 3) China 4) Europe 5) Japan

37. Susceptibility of the air medium is-

1) Positive 2) Negative 3) Zero 4) One 5) None

38. What was the Day of week on 1947 August 15?

1) Friday 2) Wednesday 3) Sunday 4) Monday 5) Thursday

39. Which is the odd man out?

1) LONDON 2) NEW YORK 3) MUMBAI 4) SYDNEY 5) VENICE

40. Which of the following has no multiple bond?

- 1) HCN 2) N₂H₄ 3) C₂H₄ 4) CO₂

41. The most appropriate material for a cooking pot is the one having-

- 1) High specific heat and low conductivity 2) High specific heat and high conductivity
3) Low specific heat and low conductivity 4) Low specific heat and high conductivity
5) None of these

42. The first Indian to win the Nobel Prize was-

- 1) C. V. Raman 2) Hargobind Khorana 3) Rabindranath Tagore 4) Amartya Sen 5) Nirad C. Chaudhary

43. Insert the missing number- 8 12 10 16 12 ...

- 1) 18 2) 14 3) 20 4) 24 5) 32

44. An example of an alicyclic compound is-

- 1) Hexane 2) Pyrrole 3) Benzene 4) Cyclohexane 5) Anthracene

45. In a room fitted with green bulb a red cloth will appear to be-

- 1) red 2) yellow 3) orange 4) black 5) blue

46. Heathrow airport is in-

- 1) Paris 2) London 3) New York 4) Chicago 5) Sydney

47. Santoor is a-

- 1) Mughlai dish 2) Ornament 3) Musical instrument 4) Ceremonial dress 5) A fruit

48. A man is facing West. He turns 45° in the clock-wise direction and then another 180° in the same direction and then 270° in the anti-clockwise direction. Which direction is he facing now?

- (a) South (b) North-West (c) West (d) South-West

49. A man starts from a point 'X' and walks 3 km southwards, then he turns left and walks 6 km. In which direction is he from the starting point?

- (a) South-West (b) South-East (c) West (d) South

50. The H.C.F. of 595 and 252 is-

- (a) 1 (b) 7 (c) 11 (d) 17

51. The L.C.M. of 26, 56, 104 and 182 is-

- (a) 456 (b) 728 (c) 748 (d) 1274

52. A student was asked to divide a number by 3. But, instead of dividing it, he multiplied it by 3 and got 29.7. What was the correct answer?

- (a) 3.3 (b) 9.3 (c) 9.8 (d) 9.9

53. $5852 \div 28 \times ? - 1653 = 1064$

- (a) 9 (b) 13 (c) 15 (d) 18

54. If 1440 is divided into two parts in which one part is $\frac{1}{9}$ of the second, then the smaller part is-

- (a) 405 (b) 630 (c) 810 (d) 1035

55. If $\sqrt{4n} = 1024$, then the value of n is-

- (a) 5 (b) 8 (c) 10 (d) 12

56. A man covers half of his journey at 6 km/ hr and the remaining half at 3 km/ hr/his average speed is-

- (a) 4 km/ hr (b) 4.5 km/ hr (c) 9 km/ hr (d) 3 km/ hr

57. The average weight of 8 boys is increased by 1.5 kg when one of the boys, who Weights 65 kg, is replaced by a new boy. The weight of the new boy is-\

- (a) 70 kg (b) 74 kg (c) 76 kg (d) 77 kg

58. The $\frac{4}{5}$ th of a certain number is 64. Half of the number is-

- (a) 40 (b) 32 (c) 80 (d) 16

59. The ratio between the present ages of Ravi and Jai is 3:2. If Ravi was 6 years older than Jai, four years back, how old is Jai now?

- (a) 6 years (b) 12 years (c) 18 years (d) Data inadequate

60. 5 men or 9 women can do a piece of work 19 days. In how many days will 3 men and 6 women working together will finish the work?

- (a) 10 days (b) 15 days (c) 87 days (d) 38 days

THE END

