

QUANTITATIVE TOPIC WISE EXAM (AVERAGE)

1. Ashish got married at the age of 28 years and his wife was 25 years old at the time of marriage. After five years, the average age of Ashish, his wife and their son was 22 years. Find the present age of the son?

- A. 1 years
- B. 2 years
- C. 3 years
- D. 4 years
- E. None of these

2. In the first 30 overs of a cricket game, the run rate was only 4.5. The target is 280 runs, and then what should be the run rate in the remaining 20 overs to reach the target?

- A. 7
- B. 7.25
- C. 7.5
- D. 8
- E. None of these

3. In a class, the average of the class got increased by 2 when a Student's marks were wrongly entered as 76 instead of 56. The number of students in the class is:

- A. 5
- B. 8
- C. 9
- D. 10
- E. None of these

4. The average age of Amit and Baabu is 21 years. If Chiku was to replace Amit, the average would be 18 and If Chiku was to replace Baabu, the average would be 19. What are the age of Amit, Baabu and Chiku?

- A. 20, 18, 20
- B. 22, 20, 16
- C. 22, 20, 18
- D. 18, 20, 22
- E. None of these

5. 6 years ago, the average age of Ravi, his wife and his daughter was 24 years. If 2 years ago the average age of Ravi and his wife was 38. Then find out the present age of the daughter.

- A. 10 years
- B. 12 years
- C. 15 years
- D. 18 years
- E. None of these

6. In a family, there are 6 members with average age 26 years. If the age of the youngest member be 5 years, the average age of the family at the birth of the youngest member was?

- A. 18 years
- B. 21 years
- C. 22 years
- D. 24 years
- E. None of these

7. In a Boys hostel, there were total of 40 students. The expenses of the hostel mess were increased by Rs.124 per day due to 12 new admissions in the hostel. And the average expenditure per head diminished by Rs 2. What was the original expenditure of the hostel mess?

- A. Rs.660
- B. Rs.690
- C. Rs.720
- D. Rs.760
- E. Rs.800

8. The average age is 19 years of a class. While the average age of girls is 18 and the average age of boys is 21. If the number of girls is 16 then find the total number of students in the class.

- A. 8
- B. 10
- C. 12
- D. 16
- E. None of these

9. In a family, there are 6 males and a few females; the average monthly consumption of wheat per head is 9 kg. If the average monthly consumption of wheat per head be 12 kg in the case of males and 7 kg in the case of females, find the number of females in the family?

- A. 6
- B. 9
- C. 12
- D. 15
- E. None of these

10. Rahul is a cricket player and his batting average for 17 innings is 50 and the difference between the runs of best inning and worst inning is 74. If these two innings are not included, then the average becomes 48 for 15 innings. What is the best score of the made by the Rahul?

- A. 86
- B. 95
- C. 102
- D. 108
- E. None of these

11. In a school, there are 40% girls students and rest is boys. 75% of the boys passed in the examination. The total 80% of passed out of 1200 students. What is the number of girl students passed in the examination?

- A. 360
- B. 400
- C. 420
- D. 450
- E. None of these

12. The reduction of 16.67% in the price of sugar enables a person to buy 2.5 kg more sugar for Rs. 560. What is the original price of sugar?

- A. 28
- B. 32
- C. 36

- D. 38
E. None of these

13. The population of a village in the first year increases by 10%, in the next year it decreases by 10%. Once again it increases in the third year by 10% and in the fourth year it decrease by 10%. If the present population is 30,000 then what will be the population after four years from now?

- A. 28654
B. 29204
C. 29403
D. 31523
E. None of these

14. In an election, Ajay and Vijay are the two candidates from the same place. Vijay got 8% more votes than Ajay and declared the winner. If Ajay got 1, 15,000 votes and there are no invalid votes, by how many votes did Ajay lose the election?

- A. 20000
B. 25,000
C. 30,000
D. 35,000
E. None of these

15. The price of fuel is increased by 20%, but instead of decreasing the usage of fuel, Rita increased it by 15%. What is the percentage change in his monthly expenditure on fuel?

- A. 25%
B. 32%
C. 35%
D. 38%
E. None of these

16. Mr. Sanjay invests 9% i.e. Rs. 2880 of his monthly salary in recurring deposits. Later he invests 15% of his monthly salary in sukanya samridhi yojna and he also invests 25% of his remaining monthly salary in mutual funds.

What is the total annual amount invested by Mr. Sanjay in the whole year?

- A. 154420
B. 158660
C. 165120
D. 167480
E. None of these

17. A Raman sells 40% of apples he had and throws away 25% of the remainder. Next day he sells $55\frac{5}{9}\%$ of the remainder and throws away the rest. What percent of his apples does the Raman throw?

- A. 25%
B. 28%
C. 32%
D. 35%
E. None of these

18. Ajay decided to donate 10% of his salary to a charitable institution. On the day of donation, he changed his mind and

donated Rs. 1594.50 instead, which was 60% of what he had decided earlier. How much is Ajay's salary?

- A. 24560
B. 26575
C. 27875
D. 28975
E. None of these

19. On adding 14 to a number X, we get 55% of number Y and on Subtracting 6 the number X we get 30% of Y. Find the value of X?

- A. 30
B. 35
C. 40
D. 45
E. 48

20. In an election only two persons A and B contested 20% of the voters did not vote and 1600 votes were declared as invalid. The winning candidate, A got 1920 votes more than his opponent thus he secured 54% votes of the total voters who voted. What are the total voters on the voter list?

- A. 28000
B. 30000
C. 32000
D. 34000
E. 35000

21. The average age of 60 girls in a class is 22 years. The average age of a group of 20 girls in the class is 21 years and the average age of another 15 girls in the class is 25 years. What is the average age of the remaining girls in the class?

- A. 19 years
B. 20 years
C. 20.5 years
D. 21 years
E. 21.5 years

22. Present age of Anil is three times his son's present age and two-third of his father's present age. At present, the average age of all of them is 34 years. What is the difference between the Anil's son's present age and Anil's father's present age?

- A. 36 years
B. 42 years
C. 48 years
D. 54 years
E. None of these

23. Varun was married 12 years ago. Today his age is $1\frac{2}{5}$ 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

24. Of the three numbers, the average of the first and the second is greater than the average of the second and the third by 15. What is the difference between the first and the third of the three numbers?

- A. 15
- B. 20
- C. 30
- D. Data inadequate
- E. None of these

25. The average of 8 numbers is A and the average of four of these is B. If the average of remaining four is C, then

- A. $2A = B + C$
- B. $A = B + 2C$
- C. $A = 2B + C$
- D. $A = 2A + 2B$
- E. $A = B + C$

26. Varsha sells 40% of Bananas she had and throws away 20% of the remainder. Next day she sells 62.5% of the remainder and throws away the rest. What percent of the bananas does the Varsha throw?

- A. 24%
- B. 27%
- C. 30%
- D. 35%
- E. None of these

27. The population of a village in the first year increases by 10%, in the next year it decreases by 10%. Once again it increases in the third year by 10% and in the fourth year it decrease by 10%. If the present population is 50,000 then what will be the population after four years from now?

- A. 48504
- B. 49005
- C. 50025
- D. 51235
- E. None of these

28. In an election, 10% voters did not cast their votes and 1200 votes called invalid. Ajay and Vijay are the two candidates from the same place. Vijay got 56% votes of the valid votes and declared the winner by 1,800 votes. Find the total number of voters?

- A. 18,000
- B. 20,000
- C. 22,500
- D. 25,000
- E. None of these

29. Anjali decided to donate 10% of his salary to a charitable institution. On the day of donation, she changed her mind and donated Rs. 1600 instead, which was 50% of what she had decided earlier. How much is Anjali's salary?

- A. 24000
- B. 27000
- C. 30000
- D. 32000

E. None of these

30. Rohit invests 12% i.e. Rs. 3120 of his monthly salary in recurring deposits. Later he invests 16% of his monthly salary in bonds and he also invests 25% of his remaining monthly salary in mutual funds. What is the total annual amount invested by Rohit in the whole year?

- A. 10500
- B. 11960
- C. 12240
- D. 14400
- E. None of these

31. Amit sells a commodity at 15% profit. If he had bought it at 10% less and sold it for Rs.3 less, then he would have gained

$22\frac{2}{9}\%$. What is the cost price of the commodity?

- A. Rs. 60
- B. Rs. 75
- C. Rs. 80
- D. Rs. 120
- E. None of these

32. A reduction of 12.5% in the price of sugar enables a woman to purchase 2 kg more for Rs. 672. What is original price per kg of sugar?

- A. Rs.36 per Kg
- B. Rs.42 per Kg
- C. Rs.45 per Kg
- D. Rs.48 per Kg
- E. None of these

33. A person entered into a partnership with some investment. If the income of the person remains unchanged though the rate of return increased from 8 % to 10%. The percentage of slump in business is:

- A. 10 per cent
- B. 15 per cent
- C. 20 per cent
- D. 25 per cent
- E. None of these

34. A dealer allowed a discount of 20% on the market price Rs. 15000 on an article and incurred a loss of 4%. What discount should he allow on the market price so that he gains Rs. 1500 on the article?

- A. 12%
- B. 13%
- C. 14%
- D. 15%
- E. None of these

35. An article was purchased for Rs. 2400. Its price was marked up by 25%. It was sold at a discount of 15% on the market price. What was the profit percent on the cost price?

- A. 5%
- B. 6.25%
- C. 7.5%
- D. 10%

E. None of these

36. If the Market price is 60% higher than the Cost price and 25% discount is allowed on marked price. Then find the profit percentage?

- A. 15%
- B. 20%
- C. 25%
- D. 30%
- E. None of these

37. In a college, there are 40% students are male, 25% of male failed in the class. Total 72% passed out of 1200 students. Find the total number of female students passed?

- A. 484
- B. 504
- C. 525
- D. 565
- E. None of these

38. The maximum marks per paper in 3 subjects in Quant, Reasoning and English are in ratio 2:3:4. He got 70% in quant, 60% in reasoning and 55% in English. Find the average marks in percentage?

- A. 50%
- B. 55%
- C. 60%
- D. 65%
- E. 70%

39. Fresh fruits contain 70% of water and dry fruits contain 25% of water. How much dry fruit can be obtained from 120kg of fresh fruits?

- A. 36
- B. 40
- C. 45
- D. 48
- E. None of these

40. Salary of Kavita and Sarita in ratio 4:5. Salary of Sarita increases by 12% and overall increase in the salary of both is 10%. Find the increase in Kavita's salary by what percentage?

- A. 4%
- B. 5.5%
- C. 7.5%
- D. 9%
- E. None of these

41. The product of the ages of Harry and Sandy is 240. If twice the age of Sandy is more than age by 4 years, what is Sandy's age in years?

- A. 12 years
- B. 15 years
- C. 18 years
- D. 20 years
- E. Data inadequate

42. The average of the 9 consecutive positive integers is 45. The product of the largest and smallest integers is

- A. 2009

- B. 2099
- C. 2139
- D. 2219
- E. None of these

43. The sum of five numbers is 480. The average of first two numbers is 85 and the third number is 120. What is the average of last two numbers?

- A. 75
- B. 85
- C. 90
- D. 100
- E. None of these

44. In a class, the average of the class got increased by 2 when a Student's marks were wrongly entered as 76 instead of 56. The number of students in the class is:

- A. 5
- B. 8
- C. 9
- D. 10
- E. None of these

45. 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

46. 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

47. A jar full of milk contains 84% pure milk. A part of this milk is replaced by containing 64% pure milk and now the percentage of pure milk was found to be 72%. What is the quantity of pure milk replaced?

- A. $\frac{2}{3}$
- B. $\frac{1}{2}$
- C. $\frac{1}{3}$

$\frac{3}{5}$

- D.
- E. None of these

48. There is a mixture of 80 Litres in which the ratio of Acid and water is 2 : 3. If this ratio is to be 1 : 2, then the quantity of water to be further added is

- A. 12 Litres
- B. 16 Litres
- C. 18 Litres
- D. 20 Litres
- E. None of these

49. Two tanks X and Y contain mixtures of milk and water in the ratio 5:3 and 3:1 respectively. The volumes of two tanks are in the ratio 2:3. If the contents of both tanks are mixed, then find ratio of milk to water?

- A. 5 : 7
- B. 7 : 2
- C. 7 : 3
- D. 5 : 2
- E. None of these

50. A container has 40 litres of pure milk. If 4 litres of mixture is replaced by 4 litres of water and this operation is repeated twice, what will be the quantity of milk in the new mixture?

- A. 28 litres
- B. 30.5 litres
- C. 32.4 litres
- D. 36.6 litres
- E. None of these