Q1. If the digits of a two digit number are interchanged, the newly formed number is more than the original number by 18. If the sum of the digits is 8, then what was the original number?

(A) 26

(B) 17

(C) 35

(D) Data inadequate

Ans. (C) 35

Q2. One year ago, a mother was 4 times older than her son. After 6 years, her age becomes more than double her son's age by 5 years. The present ration of their age will be:

(A) 17:2

(B) 25:7

(C) 29:6

(D) None of these

Ans. (B) 25:7

Q3. If m:n is 2:3, what is the value of (2m+5n)/(6m-n):

(A) 5/3

(B) 7/3

(C) 3/7

(D) None of these

Ans. (B) 7/3

Q4. A triple successive discount of 20%, 10% and 5% is equal to a single discount of :

(A) 31.60%

(B) 25.7%

(C) 40%

(D) 35%

Ans. (A) 31.60%

Q5. Three items are purchased at Rs.380/- each. One of them is sold at a loss of 10%. The others are sold so as to gain25% on the whole transaction. What is the gain % on these two items?

(A) 42.5%

(B) 40.5%

(C) 44.5%

(D) None of these

Ans. (A) 42.5%

Q6. The size of a bag that could hold 6 Kg of oranges has now been increased so that it can hold 8 kg. What is the percentage increase in the size?

(A) 30 1/3 %

(B) 33 1/3%

(C) 20%

(D) 25%

Ans. (B) 33 1/3%

Q7. If w/x=6/11, y/z=16/23, w/y=9/6 then what is the value of x/y?

(A) 13/16

(B) 11/16

(C) 6/16

(D) None of these

Ans. (D) None of these

Q8. What approximate value should come in place of (?) in the following question?

$$\sqrt{727.9995} + (5.1961)^2 = ? \div \frac{2}{10.7960}$$

(A) 8

(B) 10

(C) 53

(D) None of these

Ans. (B) 10

Q9. Mid points of the side of an equilateral triangle of side 18 cm are joined to form another triangle, whose midpoints are further joined to form a different triangle and this process is repeated indefinitely. The sum of the perimeters of all triangle will be:

(A) 144cm

(B) 172cm

(C) 72cm

(D) 108cm

Ans. (D) 108cm Hint: use GP

Q10. A sum of Rs.8500/-is to be divided among 5 men, 6 women and 8 boys in the ratio of 10:7:1. The share of 01 boy will be:

(A) Rs.595/-

(B) Rs.850/-

(C) Rs.85/-

(D) None of these

Ans. (C) Rs.85/-

Q11. Ram and Shyam work in the same factory. Ram can produce 45 articles in one hour and Shyam can produce 40 articles in 0ne hour. During one week Shyam worked 5 more hours than Ram but produced same number of articles as Ram. How many hours did Ram work that week:

(A) 50

(B) 43

(C) 45

(D) 40

Ans. (D) 40

Q12.

$$\frac{\sqrt{441}}{63} \times \frac{\sqrt{81}}{3} = ?$$

(A) 3/4

(B) 5 ¼

(C) 1

(D) 1 1/3

Ans. (C) 1

Q13. Which of the following numbers has got the highest value?

(A) 127/25

(B) 121/9

(C) 53/4

(D) 25/6

Ans. (B) 121/9

Q14. The average score of Sachin Tendulkar in IPL 15 matches is 70 runs and the average score in Border-Gavaskar T-20 matches is 45 runs in 7 matches. If he has played 10 more International T-20 matches and his overall average score in all T-20 matches was 73 runs. What was his total score in 10 International T-20 matches:

(A) 971

(B) 982

(C) 990

(D) None of these

Ans. (A) 971

Q15. Number of diagonals in a 30 sided convex polygon will be:

(A) 818

(B) 378

(C) 405

(D) 955

Ans. (C) 405

Q16. Two trains leave stations P and Q, 110km apart. Train from P to Q travels at 25Km/hr and train from Q to P at 30Km/hr. If they both start at 8 AM, they meet at:

(A) 09:00Am

(B) 09:45 Am

(C) 10:40Am

(D) None of these

Ans. (D) None of these

Q17. A sphere of radius x is melted and its volume is divided into two equal parts. One part is cast into a cylinder of height 10cm and second a cone of same height. The ratio of cylinder radius to the cone radius is:

(A) 1:3

(B) $\sqrt{3}$:2

(C) 1:$\sqrt{3}$

(D) None of these

Ans. (C) 1:√3

Q18. A man buys milk at a certain price per Kg. and after mixing it with water sells it again at the same price. How many grams of water he mixes in every Kg. of milk if he makes a profit of 25%:

(A) 150g

(B) 30g

(C) 250g

(D) 200g

Ans. (C) 250g

Q19. A sum of Rs.8000 generates Rs.1261 as compound interest in 03 years, interest being compounded annually. The rate of compound interest is:

(A) 10%

(B) 5%

(C) 20%

(D) 2.5%

Ans. (B) 5%

Q20. By how much is two-thirds of 96 less than three fifths of 210?

(A) 114

(B) 62

(C) 206

(D) None of these

Ans. (B) 62

Q21. If √.00000676 = .0026, then the square root of 67,60,000 is:

(A) 260

(B) 2600

(C) 1/26

(D) 26

Ans. (B) 2600

Q22. The average temperature of three days is 24˚C. If the temperature on first two days is 20˚ and 25˚C respectively, then temperature on third day is:

(A) 27˚C

(B) 24˚C

(C) 22 ½˚C

(D) 23˚C

Ans. (A) 27˚C

Q23. A five-year cash certificate with a maturity value of Rs.300 is purchased for Rs.200. The annual rate of simple interest is:

(A) 10%

(B) 15%

(C) 5%

(D) 7 ½ %

Ans. (A) 10%

Q24. You bought some apples. On the first day you ate one and ¼ of the reminder. On the second day you ate 2 and ¼ of the remainder. On the third day you ate the entire remaining balance of 3. How many apples did you buy?

(A) 13

(B) 19

(C) 9

(D) None of these

Ans. (C) 9

Q25. Two card start from place A and B, 100km apart, towards each other. Both card start simultaneously. A bird sitting on one car starts at the same time towards the other car, and as soon as it reaches the second car, it flies back to the first carand it continues in the manner flying backwards and forwards from one car to the other, until the cars meet. Both cars travel at speed of 50Kmph and the bird flies at 100kmph. Total distance covered by the bird will be:

(A) 100km

(B) 200km

(C) 50km

(D) None of these

Ans. (A) 100km

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