ESIC LDC (Employees State Insurance Corporation) Maths

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1. 41.2 x 0.15 =?
(A) 6.18 (B) 0.618
(C) 0.0618 (D) 61.80
2. 75% of 48 = ?
(A) 64 (B) 48
(C) 36 (D) 0.36

3. If 24 men do a work in 40 days, in how many days will 30 men do it?
(A) 50 (B) 40 (C) 32 (D) 28

4. A train travels 82.6 lan/hour. How many metres will it travel in 15 minutes?
(A) 20.65
(B) 206.50
(C) 2065
(D) 20650

5. 18 buckets of water fill a tank when the capacity of each bucket is 9 litres. How many buckets will be needed to fill the same tank if the capadty of the bucket is 13.5 litres?
(A) 13.5
(B) 24
(C) 12
(D) cannot be determined because the capacity of tank is not given.

6. A mother is three times as old as her son. After 15 years she will be twice as old as her son. What is the present age in years of the mother?
(A) 30
(B) 44
(C) 50
(D) 60

7. The breadth of a rectangular hall is %th its length. If the area of the hall is 300 sq m, what is the difference between the length and breadth of the hall?
(A) 15
(B) 5
(C) 4
(D) 3

8. 9: 15 : : 45 : ?
(A) 3
(B) 27
(C) 9
(0) 75

9. Divide a sum of Rs 832 between A and B in the ratio of 1/3 :1.5'
(A) Rs 520, Rs 312
(B) Rs 500, Rs 300
(C) Rs 530, Rs ~OO
(0) Rs 510, Rs 315

10. I paid Rs 27.20 as sales tax on a watch worth Rs 340. Find the rate of sales tax.
(A) 10%
(B) 8%

(C) 9%
(0) 12%

11. Amit deposited Rs 150 per month in a bank for 8 months under the recurring deposit scheme. What will be the maturity value if the rate of interest is 8% per annum.
(A) Rs 1236
(B) Rs 1200
(C) Rs 1000
(d) Rs 1500

12.. Through what angle does the minute hand of a dock turn in 5 minutes?
(A) 30'
(B) 35'
(C) 36'
(0) 32"

13. The surface area of a cube is 150 sm2• Its volume
(A) 150 cm3
(B) 125 em3
(C) 64 em3
(0) 216 em3

14. Two lines intersect:
(A) at a
(B) in a line
(C) at infinite number of points
(d) at two points

15. 6 dozen eggs are bought for Rs 48. How much will 132 eggs cost?
(A) Rs 80
(B) Rs 78
(C) Rs 82
(D) Rs 88

16. From the sum of 17 and -12, subtract 48
(A) - 20
(B) - 17
(C) - 48
(D) - 43

17. Plato was born in 429 B.C. and expired in 348 B.c. How long did he live?
(A) 81 years
(B) 79 years
(C) 80 years
(D) 82 years

18. Two whole numbers are such that one is two times the other. If their difference is 19, their sum is:
(A) 19
(B) 38
(C) 57
(D) 76
19. If a circle and a square have the same perimeter then:
(A) Their areas are equal
(B) The area of the circle is twice that of the square
(C) The area of the square is twice that of the cirde
(d) None of these

20. A closed box made of wood of uniform thickness has length, breadth and height 12 em, 10 em and 8 em respectively. If the thickness of the wood is 1 em, the inner surface area is:
(A) 456 cm2
(B) 376 em2
(C) 264 em2
(D) 696 em2

21. At 2.15 AM the hour and minute hands of a clock form an angle of:
(A) 30'
(B) 22.5
(C) 7.5
(0) 5'

22. Successive discounts of 10% and 20% are equivalent to a single discount of:

23. Hamid sells 2 horses at the same price. On one he makes a profit of 10% and on the other he suffers a loss of 10"16 . Which one of the following statemnets is true?
(A) He makes n profit, no loss
(B) He makes a profit of 1%
(C) He suffers a loss of 1%
(d) He suffers a loss of 2%

24. Find the least number which when divided by 12, leaves a remainder of 7; when divided by 15, leaves a remainder of 10 and when divided by 16, leaves a remainder of 11.
(A) 115
(B) 235
(C) 247
(0) 475

25. In what time will a train 100 metres long with a speed of 50 km/hour cross a pillar?
(A) 7 seconds
(B) 72 seconds
(C) 12 seconds
(D) 20 seconds