ONLINE COACHING DAY 82- (27- 6 - 2019)

Mensuration

SAI EDUCATION
KERALA
(A Complete Solution For All Competitive Examinations)

Name of the candidate *

M3

Place of the candidate *

Thiruvananthapuram

Phone number of the candidate *

Xxxx

Please watch the following videos and answer the questions that follow.Also please go through all the formulae related to this chapter.

https://youtu.be/BE3uOY3S2Gk
https://youtu.be/dY55PUSFvlw
https://youtu.be/acEAoropWPU
https://youtu.be/WlekBwZ9Hus

1 . What is the area of an equilateral triangle of side 16 cm? *   1 point

○ 48√3 cm ^ 2

○ 128√3 cm ^ 2

○ 9.6√3 cm ^ 2

◉ 64√3 cm ^2

2. If the sides of a triangle are 26 cm, 24 cm and 10 cm, what is its area? *   1 point

◉ 120 cm ^2

○ 130 cm ^2

○ 312 cm ^2

○ 315 cm ^2

3. Find the area of a parallelogram with base 24 cm and height 16 cm. *   1 point

○ 262 cm ^2

◉ 384 cm ^2

○ 192 cm ^2

○ 131 cm ^2

4. The ratio of the length and the breadth of a rectangle is 4 : 3 and the area of the rectangle is 6912 sq cm. Find the ratio of the breadth and the area of the rectangle? * 1 point

● 1 : 96

○ 1 : 48

○ 1 : 84

○ 1 : 68

5. The area of the square formed on the diagonal of a rectangle as its side is 108 1/3 % more than the area of the rectangle. If the perimeter of the rectangle is 28 units, find the difference between the sides of the rectangle? * 1 point

○ 8

○ 12

○ 6

● 2

6. The length of a rectangular plot is thrice its breadth. If the area of the rectangular plot is 867 sq m, then what is the breadth of the rectangular plot? * 1 point

○ 8.5 m

● 17 m

○ 34 m

○ 51 m

7. The length of a rectangular floor is more than its breadth by 200%. If Rs. 324 is　　1 point
required to paint the floor at the rate of Rs. 3 per sq m, then what would be the
length of the floor? *

○ 27 m

○ 24 m

◉ 18 m

○ 21 m

8. An order was placed for the supply of a carpet whose breadth was 6 m and length　　1 point
was 1.44 times the breadth. What be the cost of a carpet whose length and breadth
are 40% more and 25% more respectively than the first carpet. Given that the ratio
of carpet is Rs. 45 per sq m? *

○ Rs. 3642.40

○ Rs. 3868.80

○ Rs. 4216.20

◉ Rs. 4082.40

9. What will be the cost of building a fence around a square plot with area equal to　　1 point
289 sq ft, if the price per foot of building the fence is Rs. 58? *

◉ Rs. 3944

○ Rs. 3828

○ Rs. 4176

○ Option 5

○ Cannot be determined

10. The area of a square is equal to five times the area of a rectangle of dimensions   1 point
125 cm * 64 cm. What is the perimeter of the square? *

○ 600 cm

◉ 800 cm

○ 400 cm

○ 1000 cm

11. A wire in the form of a circle of radius 3.5 m is bent in the form of a rectangule,   1 point
whose length and breadth are in the ratio of 6 : 5. What is the area of the rectangle?
*

○ 60 cm^2

◉ 30 cm^2

○ 45 cm^2

○ 15 cm^2

12. The area of a square is 4096 sq cm. Find the ratio of the breadth and the length   1 point
of a rectangle whose length is twice the side of the square and breadth is 24 cm less
than the side of the square. *

○ 18 : 5

○ 7 : 16

○ 5 : 14

○ 5 : 32

◉ None of these.

13. The parameter of a square is double the perimeter of a rectangle. The area of the rectangle is 480 sq cm. Find the area of the square. *

1 point

○ 200 sq cm

○ 72 sq cm

○ 162 sq cm

◉ Cannot be determined

14. The circumferences of two circles are 264 meters and 352 meters. Find the difference between the areas of the larger and the smaller circles. *

1 point

○ 4192 sq m

○ 4304 sq m

◉ 4312 sq m

○ 4360 sq m

15. A cube of side one meter length is cut into small cubes of side 10 cm each. How many such small cubes can be obtained? *

1 point

○ 10

○ 100

◉ 1000

○ 10000

16. The dimensions of a room are 25 feet * 15 feet * 12 feet. What is the cost of white washing the four walls of the room at Rs. 5 per square feet if there is one door of dimensions 6 feet * 3 feet and three windows of dimensions 4 feet * 3 feet each? *

1 point

○ Rs. 4800

○ Rs. 3600

○ Rs. 3560

◉ Rs. 4530

17. The radius of a wheel is 22.4 cm. What is the distance covered by the wheel in making 500 resolutions. *

1 point

○ 252 m

◉ 704 m

○ 352 m

○ 808 m

18. The volumes of two cones are in the ratio 1 : 10 and the radii of the cones are in the ratio of 1 : 2. What is the length of the wire? *

1 point

◉ 2 : 5

○ 1 : 5

○ 3 : 5

○ 4 : 5

19. A metallic sphere of radius 12 cm is melted and drawn into a wire, whose radius of cross section is 16 cm. What is the length of the wire? *

1 point

○ 45 cm

○ 18 cm

○ 90 cm

○ 180 cm

◉ None of these

20. The ratio of the volumes of two cubes is 729 : 1331. What is the ratio of their total surface areas? *

1 point

◉ 81 : 121

○ 9 : 11

○ 729 : 1331

○ 27 : 121

21. A rectangular ground 16m long and 10m breadth. It has a gravel path 2.5m wide all around it on the outside. What is the area of the path? *

1 point

○ 159 m²

◉ 155 m²

○ 187 m²

○ 183 m²

22. A ladder is resting with one end in contact with the top of the wall of height 15m   1 point
and the other end of the ground is at a distance 8m from the wall. The length of the
ladder is? *

◉ 17m

○ 18m

○ 16m

○ 15m

○ 10m

23.The length of a rectangle wall is 3/2 times of its height. If the area of the wall is   1 point
600m². What is the sum of the length and height of the wall? *

○ 40

○ 60

◉ 50

○ 70

24. One side of rectangular ground is 8m and its diagonal is 17m. Find the area of   1 point
ground? *

○ 150

○ 140

○ 130

◉ 120

25. A cylindrical cistern whose diameter is 14 cm is partly filled with water. If a rectangular block of iron 22 cm in length, 14 cm in breadth and 7 cm in thickness is wholly immersed in water, by how many centi metre will the water level rise? *

1 point

○ 10 cm

○ 12 cm

◉ 14 cm

○ 15 cm

Thank you!!!

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