108 DAYS ONLINE COACHING DAY(98) –18/06/2020 THURSDAY

Mensuration

Name of the candidate *

M3

Place of the candidate *

Thiruvananthapuram

WHAT APP NUMBER (JOINED IN SAIVEDUCATION ONLINE COACHING PLATFORM) *

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Please watch the following videos and answer the following questions

https://youtu.be/acEAoropWPU
https://youtu.be/BE3uOY3S2Gk
https://youtu.be/2eeAJx-NWb8
https://youtu.be/YAOsh8lPRwY
https://youtu.be/YOw6Ixrx0fY

1.One side of a rectangle is 22 m. and another side is 15m. Then area is? *   1 point

○ 330m

◉ 330m^2

○ 180m^2

○ 280m^2

2.Perimeter of a rectangle is 300m and its width is 60m,then its area is *   1 point

○ 900m^2

◉ 5400m^2

○ 540m^2

○ 90m^2

3.Length of a rectangle is 21m width is 20m, then length of the diagonal is *   1 point

○ 42m

○ 442m

◉ 29m

○ 841m

4.The ratio of length and width of a room is 5:3 and its height is 5 m. If the cost to paint   1 point
the room is 1600,if the cost per square metre is Rs 10,then difference between length
and width is? *

○ 10m

○ 6m

◉ 4m

○ 2m

5.The cost of fencing of a rectangle field is 25000,cost per square meter is Rs 50 ,length   1 point
is one and half times width ,then length is *

◉ 150m

○ 100m

○ 120m

○ 110m

6.The length and width of a room is 25m and 8m respectively..Find the length of a carpet   1 point
if its width is 2m *

○ ● 100m

○ 200m

○ 50m

○ 150m

7.Find the number of square tiles if the length and width of the room is 11.25m and 6.75m   1 point
respectively *

○ 10

● 15

○ 20

○ 25

8.The measuring of the sides of a rectangle ,one side is taken 30% excess and the other   1 point
is 20 % in deficit ,find the change in area? *

○ 4% decrease

● 4% increase

○ 1% increase

○ 1% decrease

9.If each side of a square is increased by 25%,find the percentage change in its area? * 1 point

○ **56.25**

○ 5.625

○ 562.5

○ 5625

10.How many small balls can place in a box 20cmx 14cmx7cm,if its radius is 1.5cm? * 1 point

○ 24

○ **48**

○ 12

○ 6

11.The cost of painting of 4 walls of a room is Rs 250,then what will be the cost of painting 1 point
3 times larger room. *

○ 1250

○ **2250**

○ 2150

○ 2750

12.The capacity to store rice is in a room is 345 tonnes. Then what will be the capacity to   1 point
keep rice in a room which is thrice greater? *

○ 3195 tonnes

○ 1935 tonnes

◉ 9315 tonnes

○ 3519 tonnes

13.Find the length of the longest pole that can be placed on a room of 12m long and 8 m   1 point
broad and 9m height *

○ 144m

◉ 17m

○ 64m

○ 81m

14. Find the area of a square if its length of side is 6 cm *   1 point

◉ 36cm^2

○ 36m^2

○ 6cm

○ 6m

15.Find the diagonal if the side is 12 cm of a square *   1 point

○ 144cm^2

○ 24cm

◉ 16.968cm

○ 24cm^2

16.Find the area of a square if diagonal is 12cm *   1 point

○ 144cm^2

○ 72cm

◉ 72cm^2

○ 24cm

17.A square grassy plot is length is 8 m has a grass path 1.5m wide all round it on the   1 point
outside.Find the area of the path *

○ 75cm^2

◉ 57cm^2

○ 75cm

○ 57cm

18.Which will be the sides of a triangle in the following figures? *   1 point

🔘 12,8,18

⭕ 10,3,4

⭕ 10,5,2

⭕ 7,10,1

19.The ratio of a triangle is 3:5:7 then largest angle is? *   1 point

⭕ 60 ^0

⭕ 36^0

🔘 84^0

⭕ 90^0

20.If the sides of a triangle are 3cm,4cm and 5cm,then area is? *   1 point

⭕ 36

🔘 6

⭕ 12

⭕ 24

21.The base of triangle is 4.6m ,height is 67 cm ,then area is? *   1 point

○ 15410cm^2

○ 14510CM^2

○ 110540cm^2

○ 1154CM^2

22.What will be altitude of a triangle if the base of the triangle is x and side of a square is   1 point
x and area of both are equal? *

○ 2x

○ 2

○ 2x^2

○ X

23. The measures (in cm) of sides of a right angled triangle are given by consecutive   1 point
integers. What is its area (in cm2)? *

○ (1) 9

○ (2) 8

○ (3) 5

○ (4) 6

24. Each side of an equilateral triangle is 6 cm. Find out its area. *   1 point

◉ (a) $9\sqrt{3}$ sq.cm.

◯ (b) $6\sqrt{3}$ sq.cm.

◯ (c) $4\sqrt{3}$ sq.cm.

◯ (d) $8\sqrt{3}$ sq.cm.

25.The perimeter of a triangle is 28 cm and the in radius of the triangle is 2.5 cm. What is   1 point
the area of the triangle? *

◯ A. 25 cm^2

◯ B. 42 cm^2

◯ C. 49 cm^2

◯ D. 70 cm^2

◉ E. None of these

Thankyou!!!

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