

# 108 Days Online Coaching Day (108)~17/12/2020, THURSDAY

MENSURATION



NAME OF THE CANDIDATE \*

M3

PLACE OF THE CANDIDATE \*

KANNUR

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PLEASE WATCH THE ONLINE CLASSES CAREFULLY AND NOTE DOWN IT IN YOUR DIARY  
BEFORE SENDING THE ANSWERS

<https://www.youtube.com/watch?v=dY55PUSFvlw>  
<https://www.youtube.com/watch?v=WlekBwZ9Hus>  
<https://www.youtube.com/watch?v=ggC-tkTCPsQ>  
<https://www.youtube.com/watch?v=GAsXuPsLvP8>

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

1 point

- 120 cm<sup>2</sup>
- 130 cm<sup>2</sup>
- 312 cm<sup>2</sup>
- 315 cm<sup>2</sup>

2. Find the sum of angles except right angle \*

1 point

- 180 degree
- 120 degree
- 60 degree
- 90 degree

3. What is the are of an equilateral triangle of side 16 cm? \*

1 point

- $48\sqrt{3}$  cm<sup>2</sup>
- $128\sqrt{3}$  cm<sup>2</sup>
- $9.6\sqrt{3}$  cm<sup>2</sup>
- $64\sqrt{3}$  cm<sup>2</sup>

4. Find the area of a equilateral triangle if its height is  $\sqrt{6}$  cm? \*

1 point

- $4\sqrt{3}$  cm<sup>2</sup>
- $2\sqrt{3}$  cm<sup>2</sup>
- $6\sqrt{3}$  cm<sup>2</sup>
- $8\sqrt{3}$  cm<sup>2</sup>

5. The area of a triangle is 615 m<sup>2</sup>. If one of its side is 123 m, find the length of the perpendicular dropped on that side from opposite vertex. \*

1 point

- 15m
- 10 m
- 12 m
- 16 m

6. Find the base of an isosceles triangle , if its perimeter is 80 cm and equal sides are 15 cm each? \*

1 point

- 60 cm
- 40 cm
- 50 cm
- 70 cm

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

1 point

- 3828
- 3944
- 4176
- Cannot be determined

8: The diameter of cylinder 7 cm and its height is 16 cm. The lateral surface area is? \*

1 point

- 352 cm<sup>2</sup>
- 340 cm<sup>2</sup>
- 332 cm<sup>2</sup>
- 312 cm<sup>2</sup>

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

1 point

- 9 : 11
- 81 : 121
- 729 : 1331
- 27 : 121

10: Find the perimeter of a rectangle whose length and breadth are 150 m and 1 m respectively \*

1 point

- 302 m
- 300 m
- 304 m
- 306 m

11: Varun wants to cover the floor of a room 3 m wide and 4 m long by squared tiles. If each square tile is of side 0.5 m, then find the number of tiles required to cover the floor of the room \*

1 point

- 44
- 38
- 36
- 48

12: The volume of a solid hemisphere is  $19404 \text{ cm}^3$ . Its total surface area is? \*

1 point

- $4158 \text{ cm}^2$
- $4155 \text{ cm}^2$
- $4164 \text{ cm}^2$ .
- $4278 \text{ cm}^2$

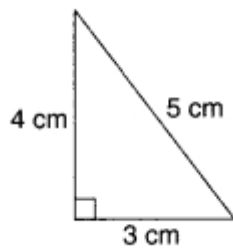
13: The total surface area of a cylinder of base radius  $r$  and height  $h$  is \*

1 point

- $2\pi r(r + h)$
- $\pi r(r + h)$
- $2\pi rh$
- $2\pi r^2$

14: The perimeter of the figure is \*

1 point



- 12 cm
- 24 cm
- 6 cm
- $2\pi r^2$

15: The surface area of a cube of edge  $a$  is \*

1 point

- $4a^2$
- $3a^2$
- $6a^2$
- $a^2$

16: If the height of a cuboid becomes zero, it will take the shape of a \*

1 point

- cube
- parallelogram
- circle
- rectangle

17: The floor of a room is a square of side 6 m. Its height is 4 m. The volume of the room is \*

1 point

- 140 m<sup>3</sup>
- 142 m<sup>3</sup>
- 144 m<sup>3</sup>
- 145 m<sup>3</sup>

18 . The heights of two right circular cylinders are the same. Their volumes are respectively  $16\pi \text{ m}^3$  and  $81\pi \text{ m}^3$ . The ratio of their base radii is \*

1 point

- 16 : 91
- 4 : 9
- 3 : 2
- 9 : 4

19: A cuboid has \_\_\_\_\_ pairs of identical faces \*

1 point

- 3
- 2
- 4
- 6

20: The height of a cylinder whose radius is 7 cm and the total surface area is  $968 \text{ cm}^2$  1 point is: \*

- 15 cm
- 17 cm
- 19 cm
- 21 cm

**THANK YOU**

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