

# 100 DAYS ONLINE COACHING. DAY -81. 26-06-2019. (Wednesday)- MENSURATION



NAME OF THE CANDIDATES \*

M1



**DISTRICT \***

- KASARGOD
- KANNUR
- WAYANAD
- KOZHIKODE
- MALAPPURAM
- PALAKKAD
- THRISSUR
- ERNAKULAM
- IDUKKI
- KOTTAYAM
- ALAPPUZHA
- PATHANAMTHITTA
- KOLLAM
- THIRUVANANTHAPURAM

**CONTACT NUMBER \***

Xxxxxxxx

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## QUESTIONS

PLEASE WATCH THE GIVEN ONLINE CLASSES AND ANSWER THE FOLLOWING QUESTIONS



<https://youtu.be/ggC-tkTCPsQ>

<https://youtu.be/2eeAJx-NWb8>

<https://youtu.be/GAsXuPsLvP8>

<https://youtu.be/YA0sh8IPRwY>

<https://youtu.be/YOw6lrx0fY>

1. 5 CUBIC CM CUBE IS PAINTED ON ALL ITS SIDE. IF IT IS SLICED INTO 1 CUBIC CM CUBES, HOW MANY 1 CUBIC CM CUBE WILL HAVE EXACTLY ONE OF THEIR SIDES PAINTED \*

1 point

9

61

98

54

2. THE AREA OF A SQUARE FIELD IS 24200 sq m. HOW LONG WILL A LADY TAKE TO CROSS THE FIELD DIAGONALLY AT THE RATE OF 6.6 km/hr \*

1 point

3 minutes

2 minutes

2.4 minutes

2 minutes 40 sec

3. If the diagonal and the area of a rectangle are 25 m and  $168 \text{ m}^2$ , what is the length of the rectangle \*

1 point

17

31

12

24

4. A 4 cm cube is cut into 1 cm cubes. what is the percentage increase in the surface area after such cutting \*

1 point

4%

75%

400%

300 %

5. A rectangular shaped pit of length 10 ft and breadth 8 ft is made in a rectangular field of length 32 ft and breadth 20 ft. the earth dug out of the pit is uniformly spread on the remaining area of the field. if the increase in level of the remaining area is 1.25 ft then what will be the depth of the pit \*

1 point

12 ft

8 ft

8.75 ft

10.25 ft

6. Rectangles of length 4 cm and breadth 2 cm each are cut from each of the corners of a rectangular metal sheet of length 22 cm and breadth 16 cm. what will be the perimeter of the remaining portion of the metal sheet \*

1 point

- 76 cm
- 38 cm
- 152 cm
- 78 cm

7. The diameter of the circular ground is one fourth of the area of the rectangle. a fence is to be drawn around a circular ground at a cost of 130 per meter. what will be the total cost of fencing the ground, if the area of the rectangle is 56 m \*

1 point

- 5600
- 5280
- 5720
- 6290

8. If the length of a rectangle is increased by 10% and the breadth of the rectangle is decreased by 6%, then what is the change in the area \*

1 point

- 3.4 % increase
- 3.4 % decrease
- 1.4 % increase
- 1.4% decrease

9. Ratio of length and breadth of a rectangle is 4:3 and the perimeter of the rectangle is 84 cm. what is the area of the rectangle \*

1 point

- 432 sq cm
- 342 sq cm
- 340 sq cm
- none of these

10. The diagonal of a square is  $64\sqrt{2}$  cm. what is the perimeter of the square \*

1 point

- $72\sqrt{2}$
- 72 cm
- 64 cm
- $52\sqrt{2}$

11. The breadth of a rectangular field is 9 meters. its diagonal is 15 meters long. what will be the area of the rectangular field \*

1 point

- 103
- 108
- 100
- 150

12. A rectangular garden has a 4 metre wide road along all the four sides. the area of the road is 1104 sq metre. what is the sum of of length and the breadth of the garden \*

1 point

120

125

130

144

13. The edge of an ice cube is 14 cm. the volume of the largest \*

1 point

2200 cube cm

2000 cube cm

2156 cube cm

2400 cube cm

14. If the length of a rectangle is increased by 230% its area becomes 828 sq cm and perimeter 162 cm. What is the perimeter of the original rectangle \*

1 point

76 cm

84 cm

114 cm

120 cm

15. A horse is tethered to a peg with a 14 meter long rope at the corner of a 40 m long and 24 m wide rectangular grass field. What area of the field will the horse graze \*

1 point

- 154 m<sup>2</sup>
- 308 m<sup>2</sup>
- 240 m<sup>2</sup>
- 480 m<sup>2</sup>

16. The width of a rectangular park is  $\frac{10}{22}$  of its length. If the area of the park is 3360 sq m then what is the difference between length and width of the park \*

1 point

- 40 m
- 44 m
- 48 m
- 52 m

17. One of the angle of a triangle is two third angle of sum of adjacent angles of parallelogram. Remaining angles of the triangle are in the ratio 5:7 respectively. Value of 2nd largest angle \*

1 point

- 25 degree
- 40 degree
- 35 degree
- None of these



18. Length of a rectangle is 6 cm and width is 4 cm. Length is increased by 2 cm . What should be the new width so that new rectangle have same area as of the first one \*

1 point

- 4
- 3
- 2
- 1

19. How many squares with side 2 cm cover the rectangle with a length of 24 cm and width of 8 cm \*

1 point

- 40
- 46
- 48
- 50

20. What happens to the area of a square if we double its side \*

1 point

- Area become 2 times
- Area becomes 3 times
- Area becomes 4 times
- No change in area

21. A square have side equal to 6 cm. Find out its area and length of diagonal \* 1 point

35 cm<sup>2</sup> , 6. 4141

36cm<sup>2</sup>, 6.414

36 cm<sup>2</sup>, 8.484

36 cm <sup>2</sup>, 7.414

22. Length of diagonal of a square is 12 cm. Find area and perimeter \* 1 point

73 cm<sup>2</sup> , 30. 83

72 cm <sup>2</sup> , 33.84

70 cm <sup>2</sup>, 33.84

None of these

23. 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

24. Length of a rectangular floor is more than its breadth by 200%. If rs. 324 is required to paint the floor at the rate of rs. 3 per sq.m then what would be the length of the floor \*

27

24

18

21

25. An order was placed for the supply of a carpet whose breadth was 6 m and length 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 the cost of carpet is rs. 45 per sq m \*

3642.40

3868.80

4216.20

4082.40

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