APTITUDE QUIZ

1. If each side of a square is increased by 50%, the ratio of the area of the resulting square to the area of the given square is:

a. 5:4

b. 9:4 c. 4:5

d 4·9

2. A man walking at the speed of 4 kmph crosses a square field diagonally in 3 minutes. The area of the field is:

a. 18000m²

b. 20000m² c. 19000m² d. 25000m²

3. The cost of cultivating a square field at the rate of Rs.135 per hectare is Rs.1215. The cost of putting a fence around it at the rate of 75 paise per meter would be:

a. Rs.360 b. Rs.810 c. Rs.900 d. Rs.1800

4. The cost of carpeting a room 18m long with a carpet 75cm wide at 45 paise per meter is Rs.81. The breadth of the room is:

a. 7m b. 7.5m c. 8m d. 8.5m

5. A hall 36m long and 15m broad is to be paved with stones, each measuring 6dm by 5 dm. The number of stones required is:

a. 180

b. 1800

c. 18

d. 18000

6. A room 5.44m long and 3.74m broad is to be paved with square tiles. The least number of square tiles required to cover the floor is:

a. 176

b. 192

c. 184

d. 162

7. A man cycles round the boundary of a rectangular park at the rate of 12 kmph and completes one full round in 8 minutes. If the ratio between the length and breadth of the park be 3:2, then its area is:

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a. ˈ	15	3	6	m	2

b. 15360m²

c. 153600m²

d. None of these

8. A rectangular carpet has an area of 60 sq.m. If its diagonal and longer side together equal 5 times the shorter side, the length of the carpet is:

b. 12m

c. 13m d. 14.5m

9. The cost of papering the four walls of a room is Rs.475. Each one of the length, breadth and height of another room is double that of this room. The cost of papering the walls of this new room is:

b. Rs.1425

c. Rs.1900 d. Rs.712.50

10. The height of a room to its semi-perimeter is 2:5. It costs Rs.260 to paper the walls of the room with paper 50cm wide at Rs.2 per meter allowing an area of 15 sq.m for doors and windows. The height of the room is:

b. 3.9m

c. 4m d. 4.2m

11. The cross section of a canal is trapezium in shape. The canal is 12m wide at the top and 8m wide at the bottom. If the area of the cross section is 840 sq.m, the depth of the canal is:

h. 84m

c. 63m d. 8.75m

12. The altitude of an equilateral triangle of side 3Ö3cm is:

a. 3cm

h. 23cm

c. 4.5cm

d. 3/4 cm

13. The area of a right-angled triangle is 30 sq.cm and the length of its hypotenuse is 13cm. The length of the shorter leg is:

a. 4cm

b. 5cm

c. 6cm

d. 7cm

14. The difference between the circumference and the radius of a circle is 37 cm. The area of the circle is:

- a. 111 cm² b. 148cm² c. 154cm² d. 259cm²

15. A circular road runs round a circular ground. If the difference between the circumferences of the outer circle and inner circle is 66 metres, the width of the road is:

- a. 5.25m b. 7m c. 10.5m d. 21m

16. A toothed wheel of diameter 50cm is attached to a smaller wheel of diameter 30cm. How many revolutions will the smaller wheel make when the larger one makes 15 revolutions?

- a. 18
- b. 20
- c. 25 d. 30

17. A circular wire of radius 42cm is cut and bent into the form of a rectangle whose sides are in the ratio of 6:5. The smaller side of the rectangle is:

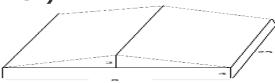
- a. 30cm

- b. 60cm c. 72cm d. 132cm.

18. Four horses are tethered at four corners of a square plot of side 63 metres so that they just cannot reach one another. The area left ungrazed is:

- a. 675.5m² b. 780.6m² c. 785.8m² d. 850.5m²

19. A theater is of the shape as shown below. The cross section is a rectangle 8mx4m mounted by a triangle of altitude 3m. If the length of the building is 25m, find its volume (Inner measures are given).



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- a. 1100cm³

- b. 1110cm³ c. 1010cm³ d. None of these

20. The measurement of a rectangular box with lid is 25cmx12cmx18cm. Find the volume of the largest sphere that can be inscribed in the box (in terms of πcm³). (Hint: The lowest measure of rectangular box represents the diameter of the largest sphere)

- a. 288 b. 48 c. 72 d. 864

ANSWER

- **1.b**
- **2.b**
- **3.c**
- **4.b**
- 5.b
- 6.a
- **7.**c
- **8.b**
- 9.c
- 10.c
- 11.b
- 12.c.
- 13.b
- 14.c
- 15.c
- 16.c.
- 17.b
- 18.d
- 19.a
- 20.a