Mensuration

1. The area of a rectangular field is 3375 m2 and its length and breadth are in the ratio 5:3. Find the breadth?
A.125m   B.45m   C.225m   D.65m   E.None of these

2. The perimeter of a square is twice the perimeter of a rectangle. If the perimeter of a square is 48cms and the length of the rectangle is 7cm. Find the breadth of the rectangle?
A.5cm   B.4cm   C.9cm   D.6cm   E.None of these

3. The area of a square is 7sqm less than half of the area of a rectangle. The length of the rectangle is 14m and breadth is 6m less than its length. What is the perimeter of the square?
A.42cm   B.32cm   C.22cm   D.28cm   E.None of these

4. A cow is tethered to a peg with 7m long rope at the corner of a 35m long and 20m wide rectangular grass field, What area of the field will the cow graze ?
A. 38.47m2   B. 35.64m2   C. 43.65m2   D. 40m2   E.None of these

5. Inside a square plot a circular garden is developed which exactly fits in the square plot and the diameter of the garden is equal to the side of the square plot which is 14m. What is the area of space left out in the square plot after developing the garden ?
A. 32m2   B. 40m2   C. 42m2   D. 35m2   E.None of these

6. The length of a rectangular floor is twice its breadth. If Rs.624 is required to paint the floor at the rate of Rs.8 psm. What is the breadth of the floor ?
A.6.24m   B.5.10m   C.7.8m   D.4.6m   E.None of these

7. A square field has an area of 7396 sq.m. find the cost of fencing around it at Rs.22 per meter ?
A.6754   B.7568   C.8765   D.7943   E.None of these

8. How many marbles of 10cm length and 7cm width are required to pave the floor of room 7m length and 4m breadth?
A.4000   B.5100   C.2800   D.3200   E.None of these

9. The length and breadth of a rectangle are increased by 32% and 25% respectively. Its area will be increased by
A.55%   B.65%   C.56%   D.50%   E.None of these

10. A wire when bent in the form of a square enclose an area of 841 sq cm. What will be enclosed area when the same wire is bent into the form of a circle?
A.1938.34   B.1069.83   C.2536.34   D.1938.33   E.None of these

11. The length of a rectangle is reduced by 30%. By what percent would the width have to be increased to maintain the original area?
A.25%   B.42.86%   C.32.76%   D.35.50%   E.None of these

12. A circular wire of radius 49 cm is cut and bent in the form of a rectangle whose sides are in the ratio of 4:7. The smaller side of the rectangle is
A.56cm   B.48cm   C.35cm   D.42cm   E.None of these

13. One of sides of a right-angled triangle is thrice the other, and the hypotenuse is 12 cm. The area of the triangle is
A. 25.4 cm2   B.6 cm2   C.5 cm2   D.6 cm2   E.None of these

14. The area of a square field is 4050 m2 the length of its diagonal is
A.76m   B.90m   C.84m   D.80m   E.None of these

15. The length of a rope by which a cow must be tethered in order that she may be able to graze an area of 2826 sq.m is
A.20m   B.17m   C.27m   D.30m   E.None of these

16. The number of rounds that a wheel of diameter14m will make in going 2 km is
A.62 rounds   B.50 rounds   C.45 rounds   D. 56 rounds   E.None of these

17. The ratio of length to breadth of a rectangle is 7:6. The perimeter of the plot is 260m. Find the area of the plot ?
A.4800sq.m   B.5600sq.m   C.4200sq.m   D.2600sq.m   E.None of these