## Mensuration Questions

Q1. The area of the parallelogram whose length is 30 cm , width is 20 cm and one diagonal is 40 cm is
(a) $200 \sqrt{ } 15 \mathrm{~cm}^{\wedge} 2$
(b) $300 \sqrt{ } 15 \mathrm{~cm}^{\wedge} 2$
(c) $100 \sqrt{ } 15 \mathrm{~cm}^{\wedge} 2$
(d) $150 \sqrt{ } 15 \mathrm{~cm}^{\wedge} 2$

Q2. The perimeter of a rhombus is 60 cm and one of its diagonal is 24 cm . The area of the rhombus is
(a) 432 sq. cm
(b) $216 \mathrm{sq} . \mathrm{cm}$
(c) $108 \mathrm{sq} . \mathrm{cm}$
(d) 206 sq. cm

Q3. The area of an isosceles trapezium is $176 \mathrm{~cm}^{\wedge} 2$ and the height is $2 / 11$ th of the sum of its parallel sides. If the ratio of the length of the parallel sides is $4: 7$, then the length of a diagonal (in cm) is
(a) $2 \sqrt{ } 137$
(b) 24
(c) $\sqrt{ } 137$
(d) 28

Q4. The lengths of two parallel sides of a trapezium are 6 cm and 8 cm . If the height of the trapezium be 4 cm , then its area is
(a) $28 \mathrm{~cm}^{\wedge} 2$
(b) $56 \mathrm{~cm}^{\wedge} 2$
(c) $30 \mathrm{~cm}^{\wedge} 2$

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(d) $36 \mathrm{~cm}^{\wedge} 2$

Q6. The outer circumference of circular race-track is 528 metre. The track is everywhere 14 metre wide. Cost of leveling the track at the rate of Rs. 10 per sq. metre is:
(a) Rs. 77660
(b) Rs. 67760
(c) Rs. 66760
(d) Rs. 76760

Q7. If the diagonals of two squares are in the ratio of $2: 5$. Their area will be in the ratio of
(a) $\sqrt{ } 2: \sqrt{ } 5$
(b) $2: 5$
(c) $4: 25$
(d) $4: 5$

Q8. The area of a field in the shape of a trapezium measure $1440 \mathrm{~m}^{\wedge} 2$. The perpendicular distance between its parallel sides is 24 m . If the ratio of the parallel sides is $5: 3$, the length of the longer parallel side is:
(a) 75 m
(b) 45 m
(c) 120 m
(d) 60 m

Q9. If the area of a triangle is $1176 \mathrm{~cm}^{\wedge} 2$ and the ratio of base and corresponding altitude is 3 : 4 , then the altitude of the triangle is:
(a) 42 cm
(b) 52 cm
(c) 54 cm

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(d) 56 cm

Q10. The sides of a triangle are in the ratio $1 / 2: 1 / 3: 1 / 4$. If the perimeter of the triangle is 52 cm , the length of the smallest side is:
(a) 24 cm
(b) 10 cm
(c) 12 cm
(d) 9 cm

Q12. An equilateral triangle is drawn on the diagonal of a square. The ratio of the area of the triangle to that of the square is
(a) $\sqrt{ } 3: 2$
(b) $1: \sqrt{ } 3$
(c) $2: \sqrt{ } 3$
(d) $4: \sqrt{ } 3$

Q13. If the radius of a circle is increased by $50 \%$. Its area is increased by:
(a) $125 \%$
(b) $100 \%$
(c) $75 \%$
(d) $50 \%$

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Q14. If the circumference and area of a circle are numerically equal, then the diameter is equal to:
(a) area of the circle
(b) $\pi / 2$
(c) $2 \pi$
(d) 4

Q15. If the arcs of unit length in two circles subtend angles of $60^{\circ}$ and $75^{\circ}$ at their centres, the ratio of their radii is
(a) $3: 4$
(b) $4: 5$
(c) $5: 4$
(d) $3: 5$

