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## CONCEPT ACADEMY

## "UTSAAH" Test Series

## "Intelligence plus character-that is the goal of true education."

-Martin Luther King Jr.

## Subject -Maths X I NDA I

## Topic Covered:-

Chapter 8:- Area Related to Circles

1. The area of a sector of a circle with radius 21 cm and sector angle of $120^{\circ}$ is
(a) $\mathbf{4 6 2} \mathbf{~ s q ~ c m}$
(b) 288 sq cm
(c) 256 sq cm
(d) 128 sq cm
2. The area of a quadrant of a circle with circumference of 22 cm is
(a) $77 \mathrm{~cm}^{2}$
(b) $77 / 8 \mathrm{~cm}^{2}$
(c) $35.5 \mathrm{~cm}^{2}$
(d) $77 / 2 \mathrm{~cm}^{2}$
3. In a circle of radius 14 cm , an arc subtends an angle of $30^{\circ}$ at the centre, the length of the arc is
(a) 44 cm
(b) 28 cm
(c) 11 cm
(d) $22 / 3 \mathrm{~cm}$
4. The perimeter of circle is equal to that of a square, then ratio of their areas is
(a) $22: 7$
(b) $14: 11$
(c) $28: 7$
(d) $7: 11$
5. The ratio of areas of incircle and circumference of a square is
(a) $1: 2$
(b) $1: 4$
(c) $1: 3$
(d) $2: 1$
6. If the area of the circle is 154 sq cm , then its perimeter is
(a) 11 cm
(b) 22 cm
(c) 44 cm
(d) 55 cm
7. The perimeter of a circle having radius 5 cm is equal to:
(a) 30 cm
(b) 3.14 cm
(c) 31.4 cm
(d) 40 cm
8. The area of a circle whose circumference is 22 cm , is
(a) $\Pi \mathrm{cm}^{2}$
(b) $38.5 \mathrm{~cm}^{2}$
(c) $22 \mathrm{~cm}^{2}$
(d) $77 \mathrm{~cm}^{2}$
9. The area of the circle that can be inscribed in a square of side 8 cm is
(a) $36 \pi \mathrm{~cm}^{2}$
(b) $\mathbf{1 6 \pi \mathbf { ~ c m } ^ { 2 }}$
(c) $12 \pi \mathrm{~cm}^{2}$
(d) $9 \pi \mathrm{~cm}^{2}$
10.The area of the square that can be inscribed in a circle of radius 8 cm is
(a) 256 cm 2
(b) $\mathbf{1 2 8 ~ c m 2}$
(c) 642 cm 2
(d) 64 cm 2
10. If the area of a circle is $154 \mathrm{~cm}^{2}$, then its perimeter is
(a) 11 cm
(b) 22 cm
(c) 44 cm
(d) 55 cm
11. If the sum of the areas of two circles with radii $R_{1}$ and $R_{2}$ is equal to the area of a circle of radius $R$, then
(a) $\mathrm{R}_{1}+\mathrm{R}_{2}=\mathrm{R}$
(b) $\mathbf{R}_{\mathbf{1}}{ }^{\mathbf{2}}+\mathbf{R}_{\mathbf{2}}{ }^{\mathbf{2}}=\mathbf{R}^{\mathbf{2}}$
(c) $\mathrm{R}_{1}+\mathrm{R}_{2}<\mathrm{R}$
(d) $\mathrm{R}_{1}^{2}+\mathrm{R}_{2}{ }^{2}<\mathrm{R}^{2}$
12. The area of circle is 2664 sq. cm, then the diameter is given by
(a) 7 cm
(b) 14 cm
(c) 28 cm
(d) 56 cm
13. If the perimeter of the circle and square are equal, then the ratio of their areas will be equal to:
(a) 14:11
(b) $22: 7$
(c) $7: 22$
(c) $11: 14$
14. Area of the circle with radius 5 cm is equal to:
(a) 60 sq. cm
(b) $75.5 \mathrm{sq} . \mathrm{cm}$
(c) $78.5 \mathrm{sq} . \mathrm{cm}$
(d) 10.5 sq.cm
