

By. Er. Dharmendra Sir

7974073108, 9584873492

# **DPM CLASSES**

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

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**TEST - PAPER (CBSE/NCERT)**

**AREA RELATED TO CIRCLE**

**SESSION -2024-25**

**CLASS - 10<sup>th</sup>**

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Time : 1 hr      ∴ Area Related to circles :-      mm!

Q. 1. Find the area of sector of a circle with radius 6 cm if the angle of the sector is  $60^\circ$  ( $\pi = \frac{22}{7}$ )

Q. 2. Find the area of the sector of a circle with radius 4 cm and angle  $30^\circ$ . Also find the area of the corresponding major sector. ( $\pi = 3.14$ )



Q. 3. The length of the minute hand of a clock is 14 cm. Find the area of swept by the minute hand in 5 minute ( $\pi = \frac{22}{7}$ )



Q. 4. A car has two wipers which do not overlap. Each wiper has a blade of length 25 cm sweeping through an angle  $115^\circ$ . Find the total area cleaned at each sweep of the blades. ( $\pi = \frac{22}{7}$ )

Q. 5. An umbrella has 8 ribs which are equally spaced. Assuming umbrella to be flat circle of radius 45 cm. Find the area between the two consecutive ribs of the umbrella.

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Q.6. A horse is tied to a peg at one corner of a square shaped grass field of side 15 m by means of 5 m long rope. Find.

(i) The area of that part of the field in which the horse can graze.

(ii) The increase in the grazing area if rope were 10 m long instead of 5 m (use  $\pi = 3.14$ )

Q.7. A chord of a circle of radius 10 cm subtends a right angle at the centre. Find the area of the corresponding (i) minor segment (ii) major sector ( $\pi = 3.14$ )

Q.8. In a circle of radius 21 cm, an arc subtends an angle  $60^\circ$  at the centre. Find : (i) The length of the arc. (ii) area of the sector formed by the arc. (iii) area of the segment formed by the corresponding chord ( $\pi = \frac{22}{7}$ )

Q.9. A chord of a circle of radius 12 cm subtends an angle of  $120^\circ$  at the centre. Find the area of the corresponding segment of the circle. ( $\pi = 3.14$  and  $\sqrt{3} = 1.73$ )



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