



**Assignment**

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Date: \_\_\_ / \_\_\_ / \_\_\_

Name: \_\_\_\_\_

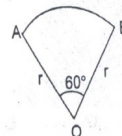
**Max Marks: 25**

**Section- A (One Marks Each)**

- 1 What is the area of the largest triangle that can be inscribed in a semicircle of radius r units?
- 2 What is the radius of circle whose circumference is equal to the sum of the circumferences of two circles of diameters 26 cm and 40 cm?
- 3 In the angle of a sector of a circle of radius 8 cm is  $60^\circ$ , what is the area of the sector?

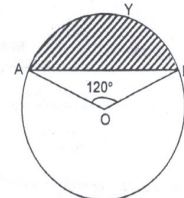
**Section-B (Two Marks Each)**

- 4 A wheel of radius 35 cm is moving without slipping on a leveled road at a steady speed of 66 km/hr. how many revolutions is it making per minute?
- 5 The length of the minute hand of a clock is 7 cm. Find the area swept by it during the time period 6:05 a.m. - 6:40 a.m.
- 6 A 20 cm long piece of wire is bent so as to form the given figure. Find the value of radius(r).

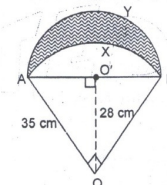


**Section-C (Three Marks Each)**

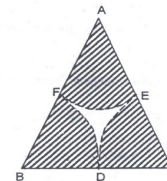
- 7 In the given figure, if the length of chord AB is  $21\sqrt{3}$  cm and  $\angle AOB = 120^\circ$ , find the area of segment AYB. ( use  $\pi = 22/7$ )



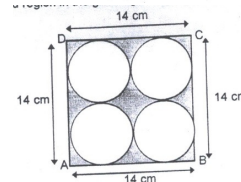
- 8 In the given figure, O is the centre of the semicircle AYB and O' is the centre of the segment AXB. If AO (radius) =35 cm and OO' =28 cm, find the area of the shaded region.



- 9 In the given figure, arcs are drawn by taking vertices A, B and C of an equilateral triangle of side 10 cm so as to intersect the sides BC, CA and AB at their respective midpoints D, E and F. Find the area of the shaded region.



- 10 Find the area of the shaded region in the given figure



**Section-D (Four Marks Each)**

- 11 Find the area and length of the boundary of the shaded region in the given figure.

