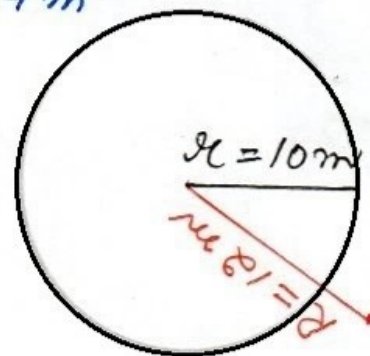


14) area of circular park = 314 m^2

$$\pi r^2 = 314$$

$$3.14 r^2 = 314$$

$$\Rightarrow r = \sqrt{100} \\ = 10 \text{ m}$$



radius sprinkle can cover = 12 m

$$\because 12 > 10 \quad (R > r)$$

\therefore it can cover entire syllabus

15) circumference of inner $\odot = 2\pi r$
 $= 2 \times 3.14 \times 9$
 $= 56.52 \text{ m}$

circumference of outer $\odot = 2\pi R$
 $= 2 \times 3.14 \times 19$
 $= 119.32 \text{ m}$

