## IX Class

## EXERCISE-5 to 7

## I. ONE mark questions :

1. Find the area of circle if its circumference is 22 cm .
2. Find the perimeter of a semicircle if its radius is 2.1 cm .
3. The radius of a circular field is 77 m . A path of width 7 m is laid out side around it. Find its area.
4. The radii of a ring are 5 cm and 3 cm then find its area.
5. The angle of a sector is $72^{0}$ and its radius is 14 cm . Find its length of arc.
6. The radius of a sector is 14 cm and its angle is $135^{\circ}$. Find its area.
7. What is the area of a sector whose radius is 28 cm and its length is 132 cm .?
8. The perimeter of a sector is 56 cm and its length is 32 cm . Find its radius.

## II. Choose the correct answer :

9. Area of the circle whose diameter is d
a) $\frac{\pi d^{2}}{4}$
b) $\pi r^{2}$
c) $\frac{\pi r^{2}}{2}$
d) $\frac{d^{2}}{4}$
10. Angle in semicircle is
a) $30^{0}$
b) $60^{\circ}$
c) $90^{\circ}$
d) $180^{\circ}$
11. Circumference of a circle whose diameter is 7 cm is
a) 44 cm
b) 147 cm
c) 14 cm
d) 22 cm
12. The circumference of a semi circle is 154 cm , then its radius is
a) 24.5 cm
b) 49 cm
c) 44 cm
d)None
13. The radius of a ring are ' $p$ ' cm and ' $q$ ' cm then its width
a) $p+q$
b) $p-q$
c) $p q$
d) $p / q$
14. The ratio between radius and diameter of a circle is
a) $2: 1$
b) $1: 2$
c) $3: 2$
d) None
15. The diameter of circle is equal to the side of a square then the ratio of their areas is [ ]
a) $\pi: 4$
b) $4: \pi$
c) $22: 7$
d) $7: 22$
16. The perimeter of a semicircle of radius ' $r$ ' is
a) $\pi \mathrm{d}$
b) $\frac{22}{7} r$
c) $\frac{36}{7} r$
d) None
17. Area of sector whose radius is x and length is y
a) $\frac{1}{2} x^{2} y$
b) $\frac{1}{2} x y$
c) $\frac{1}{2}(x+y)$
d) $2(x+y)$
18. The angle of a sector with its area $1 / 5$ of area of circle is
a) $120^{\circ}$
b) $180^{\circ}$
c) $270^{0}$
d) $72^{0}$

## III. Fill in the blanks:

19. Angle at the centre of the semicircle is $\qquad$
20. The longest chord of a circle is $\qquad$
21. Radius of the bigger circle of a ring is equal to $\qquad$
22. The area of ring is $\qquad$
23. Perimeter of a semi circle of radius ' $r$ ' cm is $\qquad$
24. The perimeter of a semi circle is 144 cm , then its radius is $\qquad$
25. The area of semi circle of radius 35 cm $\qquad$
26. Area of sector if its length is 14 cm and radius is 10 cm is $\qquad$
27. The area of a sector of radius ' $r$ ' is A then its length $l=$ $\qquad$
28. The angle made by a sector is $270^{\circ}$ then the area occupied by the sector in circle is $\qquad$
IV. Match the following :

## Group- A

29. Area of sector
30. Area of ring
31. Length of the sector
32. Perimeter of semi circle
33. Perimeter of the sector
[ ]
(C) $\frac{x^{0}}{360} \pi r^{2}$

## Group - B

[ ] (A) $l+2 \mathrm{r}$
[ ]
(B) $\frac{36}{7} r$
(D) $\pi(\mathrm{R}-\mathrm{r})$
(E) $\pi(R+r)(R-r)$
(F) $\frac{x^{0}}{360} 2 \pi r$
(G) $\frac{l r}{2}$

