

I. Choose the correct answer.

(15×1=15)

- One centimeter can be represented as one \_\_\_\_\_ of a metre.  
a) Ones      b) Tens      c) Hundredth      d) Thousandths
- The place value of 7 in 2.73 is \_\_\_\_\_  
a) Ones      b) Tenth      c) Hundredth      d) Thousandths
- For any decimal number, number of zeroes in the denominator and the number of decimal digits are \_\_\_\_\_  
a) Equal      b) Unequal      c) Bigger      d) Smaller
- The decimal representation of 30kg and 43g is \_\_\_\_\_ kg  
a) 30.43      b) 30.430      c) 30.043      d) 30.0043
- A football ground is about 264 cm wide. It is equal to \_\_\_\_\_ m  
a) 26.4      b) 2.64      c) 0.264      d) 0.0264
- The simplest form of 0.35 is \_\_\_\_\_  
a)  $\frac{35}{1000}$       b)  $\frac{35}{10}$       c)  $\frac{7}{20}$       d)  $\frac{7}{100}$
- The circumference of a circle is \_\_\_\_\_ units.  
a)  $\pi r$       b)  $\pi r^2$       c)  $2\pi r$       d)  $2\pi$
- In the formula  $C = 2\pi r$  'r' refers to \_\_\_\_\_.  
a) Circumference      b) Area      c) Rotation      d) Radius
- If the circumference of a circle is  $82\pi$ , then the value of 'r' is \_\_\_\_\_  
a) 41 cm      b) 82 cm      c) 21 cm      d) 20 cm
- Circumference of a circle is always \_\_\_\_\_  
a) Three times of its diameter      b) More than three times of its diameter  
c) Less than three times of its diameter      d) Three times of its radius
- Area of a circle,  $A =$  \_\_\_\_\_ sq.units  
a)  $2\pi r$       b)  $2\pi r^2$       c)  $\pi r^2$       d)  $\pi r$
- The ratio of the area of circle to the area of its semicircle is \_\_\_\_\_  
a) 2 : 1      b) 1 : 2      c) 4 : 1      d) 1 : 4
- The difference between the area of outer circle and inner circle is \_\_\_\_\_  
a) Area of Pathgate      b) Area of Pathway  
c) Area of Semicircle      d) Area of Quadrant
- The formula to find the area of the circular path is \_\_\_\_\_ sq.units  
a)  $\pi(R^2-r^2)$       b)  $\pi r^2$       c)  $2\pi r^2$       d)  $\pi r^2 + 2r$
- The formula used to find the area of the rectangular path is \_\_\_\_\_ sq.units  
a)  $\pi(R^2-r^2)$       b)  $(LB - lb)$       c)  $LB$       d)  $lb$

II. Answer any ten questions.

Question No. 28 is compulsory either 'a' or 'b' (10×3=30)

- Find the area of a circular pathway whose outer radius is 32 cm and inner radius is 18 cm
- Find the area of the dining table whose diameter is 105 cm

- In a grassland, a sheep is tethered by a rope of length 4.9 m. Find the maximum area that the sheep can graze.
  - Diameter of a circle  $d = 70$  cm and  $\pi = \frac{22}{7}$  Find the circumference.
  - Find the circumference of the circle whose radius is 49 cm.
  - The diameter of a circular well is 4.2 m. What is its circumference?
  - Write the decimal 2.5 as fractions.
  - Write  $\frac{6}{10} + \frac{3}{100} + \frac{1}{1000}$  as decimal numbers.
  - Convert  $\frac{99}{100}$  fraction into decimal number.
  - Write 173.178 decimal number in place value table.
  - Write the place value for the following numbers.  
i) 320.157 The place value of 1 is \_\_\_\_\_  
ii) 103.709 The place value of 9 is \_\_\_\_\_  
iii) 4.003 The place value of 3 is \_\_\_\_\_
  - Expand the following decimal number. 5678.358
  - a) What is the circumference of the circular disc of radius 14 cm?  
(Use  $\pi = \frac{22}{7}$ ) (or)  
b) Find the area of a hula hoop whose radius is 14 cm (Use  $\pi = \frac{22}{7}$ )
- III. Answer any six questions.
- Question No. 37 is compulsory either 'a' or 'b' (6×5=30)
- Express the following decimal as fractions in lowest form. 2.34
  - The diameter of the bullock cart wheel is 1.4 m. Find the distance covered by it in 150 rotations?
  - A Rose garden is in the form of circle of radius 63 m. The gardener wants to fence it at the rate of Rs. 150 per meter. Find the cost of fencing?
  - A ground is in the form of a circle whose diameter is 350 m. An athlete makes 4 revolutions. Find the distance covered by the athlete.
  - The circumference of a circular park is 352 m. Find the area of the park.
  - Match the following  
i) 75 cm      - 404.05  
ii) 7 m      -  $l \times b$  sq.units  
iii) Circumference of a circle      - 0.75 m  
iv)  $404 + \frac{5}{100}$       - Distance covered in one rotation  
v) Area of rectangle      - 0.007 km
  - Thenmozhi wants to level her circular flower garden whose diameter is 49m at the rate of Rs. 150 per  $m^2$ . Find the cost of leveling.
  - A circular carpet whose radius is 106cm is laid on a circular hall of radius 120cm. Find the area of the hall uncovered by the carpet.
  - a) A Picture of length 23cm and breadth 11cm is painted on a chart, such that there is a margin of 3cm along each of its sides. Find the total area of the margin. (or)  
b) Find its radius and diameter. The area of the circular region is  $2464cm^2$