TOPIC- Area and Perimeter (Circle)

CLASS:9   **Sub: Mathematics**   **F. M. 15**

WORK SHEET NO. -16   **Solution**   **Date: 24. 4.2020**

Q.1) **Choose the correct options:**   **1x15=15**

i) The circumference of a circular flower-bed is132m. Its area will be_____ sqm.
   d)1386

ii) Find the circumference of a circle whose area is 15400sqm.
   c)440m

iii) If the areas of two circles are16:49 then the ratio of their circumference is
   a) 4:7

iv) A road 3.5m wide surrounds a circular plot whose circumference is 44cm. The cost of paving the road at the rate of Rs20/sqm will be Rs_____.
   a) 3850

v) A copper wire when bent in the former of a square encloses an area of 121sqcm. If the same wire is bent into the form of a circle then the area of the circle is_____sqcm.
   b) 154

vi) Two small circular parks of diameters 16m and 12m are to be replaced by a bigger circular Park. The radius of the new Park will be
   a) 10m

vii) A rope by which a calf is tied is increased from 12m to 23m. How much additional grassy ground shall it graze?
   d)1210sqm

viii) The circumferences of two concentric rings are 88cm and 66cm respectively. The width between the two rings will be
   a)3.5cm

ix) A man runs round a circular field of radius 49m at a speed of 12km/hr. How much time is taken by the man to run 20 rounds of the field?
   d)30.8min

x) If the difference of areas of two circles is thrice the area of the smaller circle then the ratio of the radii will be
   d)2:1

xi) The ratio of the areas of two circles is 4:9. The ratio of the length of the radii is
   a)2:3

xii) If a wire is bent in the form of a circle it's diameter is 84cm. If the wire is better into a square then its side will be
   d)66cm

xiii) The area of a circular region is 308sqcm. The perimeter of the square inscribed in that Circle is
   d)56cm

xiv) If the inner and outer diameter of a ring shaped iron sheet is 12cm and 16cm. The area of the iron sheet in the ring is_____sqcm.
   d)88

xv) The ratio of the areas of two circles circumscribed and inscribed in an equilateral triangle is
   c)4:1

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