FORMATIVE ASSESSMENT - SECOND MID TERM

Max. Marks: 50

MATHEMATICS

Std - VII   **Time: 2 Hrs**

Name of the School:	Name of the Student:
_____	_____
Place:	**Roll No.:**
_____	_____

I.   Choose the correct answer: 10 x 1 = 10

1. When we move towards the left from one digit to the next, the place value of a digit is multiplied by _____
    a) 100   b) 10^1 c) 10^2

2. The decimal representation of 58 kg 6.3 gm is _____ kg
    a) 586.30   b) 58.630   c) 586.30

3. 9.3 lies between _____
    a) 9.0 and 3.5   b) 9.1 and 9.5   c) 9.1 and 3.1

4. _____ is the longest chord in the circle.
    a) Radius   b) Diameter   c) Line segment

5. 5927 m = _____
    a) 59.27 km   b) 5.927 km   c) 5.927 m

6. The place value of 9 in 41.92 is _____
    a) 9 hundred   b) 9 tens   c) 9 Tenths

7. The circumference of a circle of radius 1 unit is _____
    a) 2π units   b) π units   c) 1 unit

8. If the radius is doubled, the diameter of the circle will become _____.
    a) two times   b) three times   c) four times

9. The area of a circle is π cm^2. Its diameter is _____
    a) 1 cm b) 2 cm c) 4 cm

10. The length of the curved line that forms the circle is called _____
    a) Circumference   b) Radius   c) Diameter

II.   Match the following: 5 x 1 = 5

11. 1 cm -   2 * radius

12. $\dfrac{6}{10}$ -   0.07

13. $\dfrac{7}{100}$ -   Divide by 1000

14. Diameter   -   0.6

15. g to kg   -   10 mm

1

III. Do as directed: (any 10)   10 x 2 = 20

16. Represent the following decimal number pictorially: 12.4

17. Write the following as a decimal number: Three and forty eight thousandths

18. Mr. Shah bought two mechanical drafting pencils with thickness 0.05 *cm* and 0.03 *cm* respectively. Which pencil will yield a thicker line?

19. Express the following in meters using decimals: 35 m 7 cm

20. Express in fractions: a) 0.0006   b) 3.2

21. Fill in the blanks with '<', '>' or '='.
    a.   0.008 _____ 0.00800
    b.   4212.01 _____ 4212.001

22. Write the following in the place value table: 437.25

23. Arrange the following in descending order:
     23.57,   32.75,   27.53,   53.27,   35.27,   35.7,   35.72,   32.5,   32.05

24. The ratio of radii of two circles is 4:5.Find the ratio of their areas.

25. Find the area of a circle whose diameter is 1.4 *cm*.

26. Express the following using decimals:
    a.   385 rupees 95 paise in rupees
    b.   30 km 5 m in km

27. The circumference of a circular frame is 88 *cm*. Find its radius and diameter.

IV. Do the following: (any 3)   3 x 5 = 15

28. The tip of an hour hand of a clock covers a distance of 28.26 *cm* in an hour. Find the length of the hour hand. What distance would it cover in 2 ½ hours?

29. A rectangular sheet of metal measures 40 *cm* by 30 *cm*. 60 circles each of diameter 3.5 *cm* are cut out. Find the area of the metal sheet remaining.

30. There are 10 red and 15 blue balloons in the hall. Write the fraction of red and blue balloons as decimal numbers.

31. Four identical circles are placed such that each circle touches two other circles as shown below. The centres A, B, C and D are joined to form a square. Find the shaded area if the radius of each circle is 7 *cm*.