

# SUMMATIVE ASSESSMENT – SECOND TERM

## MATHEMATICS

Max. Marks: 60

Std - VII

Time: 2 Hrs

**I. Choose the correct answer:****5 x 1 = 5**

- The decimal form of  $\frac{4}{5}$  is \_\_\_\_\_.  
a) 1.8                      b) 0.8                      c) 80                      d) 0.08
- 0.4 is equal to \_\_\_\_\_.  
a)  $\frac{40}{10}$                       b)  $\frac{4}{10}$                       c)  $\frac{4}{100}$                       d)  $\frac{4}{1000}$
- $50 + \frac{6}{1000}$  can be written in decimal form as \_\_\_\_\_.  
a) 506.000                      b) 50.6                      c) 50.006                      d) 5006.06
- The circumference of a circle is  $10\pi$  cm. Its diameter is \_\_\_\_\_.  
a) 5cm                      b) 10cm                      c)  $2\pi$ cm                      d)  $4\pi$ cm
- 64 can be expressed in the exponential form as \_\_\_\_\_.  
a)  $2^5$                       b)  $16^4$                       c)  $4^{16}$                       d)  $4^3$

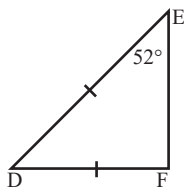
**II. Match the following:****5 x 1 = 5**

- |   |   |                     |
|---|---|---------------------|
| 6. equilateral triangle                 | – | 4                   |
| 7. isosceles triangle                   | – | $360^\circ$         |
| 8. sum of exterior angles of a triangle | – | $1^\circ$           |
| 9. $2^\circ$ is equal to                | – | two sides are equal |
| 10. degree of $p^4qr^2s^3$ is           | – | all sides are equal |

**III. Do as Directed:****10 x 2 = 20**

- Express the following fractions as decimal numbers. a)  $\frac{33}{20}$  b)  $\frac{1}{50}$
- Write the following number in the expanded form 967.4523.
- The circumference of a circular frame is 88 cm. Find its radius and diameter.  
(Take  $\pi = \frac{22}{7}$ )
- Find the area of a circle whose radius is 21cm.
- Simplify:  $(-32)^6 \div (-4)^6$
- Find the value:  $4x^3y^2z$  where  $x = (-2)$ ,  $y = (-1)$  and  $z = (-3)$

17.  $\triangle DEF$  is Isosceles triangle, and  $DE = DF$ . Find  $\angle D$  and  $\angle F$ .



18. The ratio of radii of two circles is 4:5. Find the ratio of their areas.
19. Explain the angle sum property of a triangle. Define the congruence of triangle.
20. Simplify. a)  $n^{28} \div n^{26}$  b)  $2^{99} + 2^{99}$

**IV. Answer the following (Any 6):**

**6 x 5 = 30**

21.  $9m = \underline{\hspace{2cm}}$  cm  $5659 \text{ m} = \underline{\hspace{2cm}}$  km.  
 $10 \text{ m} = \underline{\hspace{2cm}}$  km Expanded form of 34.506 is  $\underline{\hspace{2cm}}$   
 Decimal form of  $\frac{7}{25}$  is  $\underline{\hspace{2cm}}$ .
22. A wire in a circular shape encloses an area 38.5 sq cm. Find its circumference. If it is reshaped into a square, what would be its area?
23. Evaluate.  
 a)  $10^5 \times 3^2$     b)  $11^9 \times 7^9$     c)  $\frac{(-41)^{40}}{(-41)^{20}}$     d) Exponential form of 343 (base 7)  
 e) What is the unit digit of  $3123^{44}$ .
24. Explain the concept of congruence in geometry using neat diagrams to illustrate examples of. (Square, Rectangle and Line segment)
25. Portions of the Pascals triangle are given below. Fill in the missing numbers in each case.
- a)

b)
26. Find the circumference of a carrom board coin whose radius is 1.58 cm. (Take  $\pi = 3.14$ )
27. Prepare a poster on pascals triangle. Highlight any four properties and give a brief explanation of each.