

**SUMMATIVE ASSESSMENT – THIRD TERM****Max. Marks: 60****Std - VII****MATHEMATICS****Time: 2 Hrs**

<b>Name of the School:</b> <hr/>	<b>Name of the Student:</b> <hr/>
<b>Place:</b> <hr/>	<b>Roll No.:</b> <hr/>

**I. Fill in the blanks:** **$5 \times 1 = 5$** 

- $8.03 + 8.033 + 8.3 = \underline{\hspace{2cm}}$ .
- $91.453 \times 1000 = \underline{\hspace{2cm}}$ .
- $59.24 \div 10 = \underline{\hspace{2cm}}$ .
- The SP of a cap is ₹150. The gain is ₹25. The gain % is  $\underline{\hspace{2cm}}$ .
- The additional money that the bank pays you is called  $\underline{\hspace{2cm}}$ .

**II. Choose the correct answer:** **$5 \times 1 = 5$** 

- The solutions of the inequation  $2 < K \leq 6$  are (where K is a natural number)  $\underline{\hspace{2cm}}$ .  
(a) 3, 4, 5 and 6      (b) 2, 3, 4 and 5      (c) 3, 4, and 5
- The sum of 3 numbers is 12 and the sum another 2 numbers is 13. The mean of all the five numbers is  $\underline{\hspace{2cm}}$ .  
(a) 6      (b) 5      (c) 4      (d) 10
- 2 is added to each of the numbers 5, 11 and 8. The average of the resulting number is  $\underline{\hspace{2cm}}$ .  
(a) 8      (b) 10      (c) 14      (d) 12
- 146 days equal  $\underline{\hspace{2cm}}$ .  
(a)  $\frac{1}{2}$  years      (b)  $\frac{2}{3}$  years      (c)  $\frac{2}{5}$  years
- The CP is ₹450 and loss % is 10%. The SP is  $\underline{\hspace{2cm}}$ .  
(a) ₹400      (b) ₹350      (c) ₹405      (d) ₹415

**III. Match the following:** **$5 \times 1 = 5$** 

11. Profit	–	$\frac{\text{sum of the observations}}{\text{number of observations}}$
12. $(a + b)^2$	–	$a^2 - b^2$
13. Simple interest	–	$a^2 + 2ab + b^2$
14. $(a + b)(a - b)$	–	$\frac{P \times R \times T}{100}$
15. Mean	–	$SP - CP$

**IV. Write true or false:** **$5 \times 1 = 5$** 

16. The total money received in the end, that is principal + interest is called the amount.
17. An expression that contains only one term is known as Binomial.
18. If  $x - y = 4$  and  $x^2 + y^2 = 136$  then  $xy = 60$ .
19. The turtle is the curser of the logo language.
20. Always “start” is the first step in an algorithm.

**V. Answer the following questions (any 8):** **$8 \times 3 = 24$** 

21. Find the difference  $73.04 - 21.86$ .
22. Find the product  $10.1001 \times 10.01$  correct to 3 decimal places.
23. ₹6000 is invested at the rate of 5% p.a. Calculate the interest and the amount receivable at the end of 3 years.
24. Evaluate using the above identity  $(5x + 3y)^2$ .
25. Round the following decimals to the nearest thousandth.
 

(a) 0.39055	(b) 09.0499
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26. Solve:  $9x = 37^2 - 8^2$
27. Factorise the following algebraic expressions.
 

(a) $16m^2 + 88m + 121$	(b) $9v^2 - 49w^2$
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28. Which of the following figures has exactly one line of symmetry.
 

(a)	(b)	(c)	(d)
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29. Find the mode of the data --- the marks obtained by 12 students of a class in a class test.

**VI. Answer the following: (any 2)** **$2 \times 5 = 10$** 

30. Julie had deposited a sum for 7 years at the rate of 6.5% and received ₹1,81,875 at the end of the deposit period. How much money would she have deposited initially?
31. Calculate the following using a suitable identity.
 

(a) $503 \times 507$	(b) $94 \times 102$	(c) $3.2 \times 2.7$
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32. Draw flow charts for the given algorithms
  - (a) start
  - (b) accept the area of the parallelogram as AREA
  - (c) accept the base of the parallelogram as B
  - (d) calculating the height using the formula  $H = \text{AREA} \div B$
  - (e) display the result H
  - (f) stop

**VII. Practical geometry:** **$1 \times 6 = 6$** 

33. Construct triangle DEF where  $\Delta \text{DEF} = 60^\circ$   $\text{FDE} = 90^\circ$  and the side DE = 6.5cm.
 

(or)

Construct triangle PQR where PQ = 6.4 cm, QR = 5 cm and  $\Delta \text{PQR} = 80^\circ$ .