FORMATIVE ASSESSMENT – SECOND MID TERM

MATHEMATICS

Max. Marks: 50

Std - VI

Time: 2 Hrs

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

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

1. The H.C.F of 24 and 18 is _____.
   a) 9   b) 6   c) 12   d) 3

2. The L.C.M of 8 and 12 is _____.
   a) 6   b) 12   c) 24   d) 60

3. The product of the 2 numbers is equal to _____.
   a) $\dfrac{LCM}{HCF}$ b) $\dfrac{HCF}{LCM}$ c) LCM × HCF   d) $\dfrac{LCM}{HCF} \times 2$

4. The H.C.F of 13 and 27 is _____.
   a) 351   b) 40   c) 14   d) 1

5. Two times a number added to 4 times another number. The Algebraic Expression for the given statement is _____.
   a) $2y + 3y$ b) $3x + 4y$ c) $2x + 4y$ d) $\dfrac{2}{y} + 4y$

6. $6 \times (5 + 2) \div 7$ is equal to _____.
   a) 1   b) 6   c) 5   d) 7

7. The least common multiple of 24, 36 and 40 is _____.
   a) 300   b) 320   c) 340   d) 360

8. Which of the following number is not a multiple of 4?
   a) 18   b) 16   c) 20   d) 28

9. If a number is divisible by both 2 and 3 then the number is divisible by _____.
   a) 5   b) 4   c) 6   d) 8

10. A _____ is a visual way of representing hierarchy in a tree like structure.
    a) Tree diagram   b) Graph   c) Flowchart   d) Leaf diagram

II. Match the following: **5 x 1 = 5**
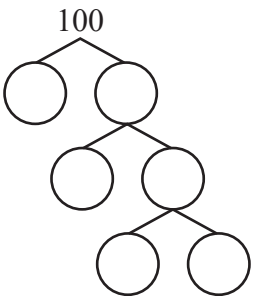
11. HCF of co-primes   –   Has leaves and nodes

12. LCM of 8 and 7   –   Six times a number

13. Tree diagram   –   11

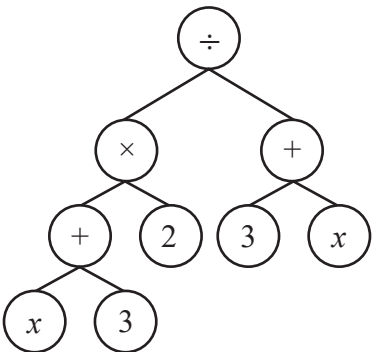14. $6x$ –   56

15. 863423 is divisible by –   1

III. Do as Directed: 10 x 2 = 20

16. Check whether the following numbers are divisible by 9 or not. Give reasons for your answer.

   a) 212257   b) 2304

17. Complete the factor tree.

18. Write the prime numbers from 1 to 30.

19. Define LCM and HCF.

20. 135 Oranges, 90 bananas and 75 apples are to be packed in boxes. If equal number of fruits are to be arranged in each box, Find the maximum number of fruits in each box?

21. Find the LCM of 12 and 35.

22. If the HCF and LCM of any two numbers are 6 and 36, If one number is 18, the other number is _____.

23. Draw the diagrams for the given algebraic statements.
   a) Add the cost of 3 pens, 4 pencils and 5 erasers.
   b) Eight times a number multiplied by the sum of 2 numbers.

24. Draw tree diagrams for the following statement. 10x + 9y.

25. From the tree diagram given below, form numerical expressions.

IV. Do as Directed: 3 x 5 = 15

26. Find the HCF of the following number using continued division method.
   512, 432 and 240.

27. Find the least number that can be exactly divided by each one of the numbers 6, 10 and 15.

28. Draw the tree diagram for $5 + (6 \div 3) \times (6 \div 3) - 7$.