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**HSS**
**6** - Std

# SECOND TERM SUMMATIVE EXAMINATION - 2024
## MATHS

Time : 2.00 Hrs

Marks : 60

**I** **Choose the correct answer.** 10 X 1 = 10

1. The difference between two successive odd number is ............ .
   a) 1          b) 2          c) 3          d) (0)

2. Which of the following pairs is co - prime?
   a) 51, 63     b) 52, 91     c) 71, 81     d) 81, 99

3. 9m 4cm is equal to ............. .
   a) 94cm       b) 904 cm     c) 9.4 cm     d) 0.94

4. 1006g is equal to ............ .
   a) 1 kg 6g    b) 10 kg 6g   c) 100 kg 6g  d) 1 kg 600g

5. 2 days = ........ hours
   a) 38         b) 48         c) 28         d) 40

6. 3 weeks = ........... days
   a) 21         b) 7          c) 4          d) 8

7. Discount is subtracted from ......... to get sp.
   a) M.P.       b) C.P.       c) Less       d) Profit

8. There is no profit or less when
   a) C.P = S.P              b) C.P > S.P
   c) C.P. < S.P            d) M.P - Discount

9. If two sides of a triangle are 5cm and 9cm, then the third side is .......... .
   a) 5 cm       b) 3 cm       c) 4cm        d) 14 cm

10. The angles of a right angled triangle are
    a) acute, acute, obtuse        b) acute, right, right
    c) right, abtuse, acute        d) acute, acute, right

**II** **Fill in the blanks.** 5 x 1 = 5

11. The numbers 29 and ........... are twin primes.

12. If the lcm of 3 and 9 is 9, then their HCF is ............ .

13. 450 ml x 5 = ................. l ......... ml.

14. Every triangle has at least ........... acute angles.

15. The sum of three angles of a triangle is ................ .

**III** **True or False.** 5 x 1 = 5

16. 16254 is divisible by each of 2, 3, 6 & 9.

17. The HCF of 45 and 75 is 15.

18. Vanmathi bought 4 books each weighing 500g. Total weight of 4 books is 2kg.
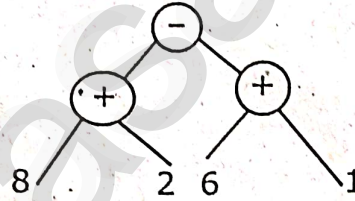
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19. 2024 is a leap year.

20. A triangle has 3 sides, 3 angles and 3 vertices.

**IV Answer any ten of the following.**         10 x 2 = 20

21. Find the Prime factors of 36 ( Factor tree method)

22. Find the LCM of 10 and 15.

23. Compare and put > or < or = in the following.
    (i) 800g + 150g ☐ 1 kg.    (ii) 600 ml + 400 ml ☐ 1l.

24. Convert 20 minutes into seconds.

25. Change the following into 24 hour format.
    (i) 12.00 noon      (ii) 12.00 midnight.

26. If Guna marks high product to be sold for Rs. 325 and gives a discount of Rs. 30, then find the S.P.

27. Can a triangle be formed with 7cm, 7cm and 7cm as its sides?

28. Two angles of the triangles are given. Find the third angle : $50^o$, $90^o$.

29. What are the angles of an isosceles right angled triangle?

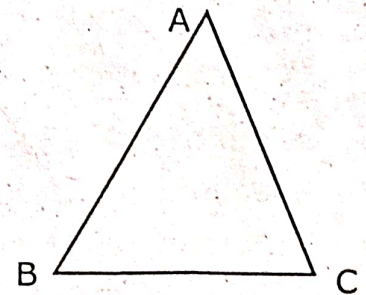30. Convert '10v' into tree diagram.

31. Convert the tree diagram into numerical expression.

          8       2   6      1

**V Answer any 5 of the following.**         5 x 3 = 15

32. Find the HCF of the number 40 and 56 by division method.

33. A child needs 100g of vegetables per day. How many of of vegetables will be needed for a school of strength 90.

34. Calculate the duration of time from 5.30 a.m. to 12.40 p.m.

35. Convert 480 days into years.

36. In ΔABC, name the
    (a) Three side     : .........., .............., .............. .
    (b) Three angle    : .........., .............., .............. .
    (c) Three vertices  : .........., .............., .............. .

37. Convert into a tree diagram.
    (3 x 5) − (4 ÷ 2)

**VI Answer any one of the following question.**      1 x 5 = 5

38. Draw a line segment AB = 7cm and mark a point P on it. Draw a line perpendicular to the given line segment at P.     **(OR)**

39. Draw a line segment measuring 7.8 cm. Mark a point B above it a distance of 5cm. Through B draw a line parallel to the given line segment.