

# T COMMON SECOND TERM SUMMATIVE EXAMINATION - 2024

Reg.No. 

Marks: 60

Time: 2.00 hrs.

## Standard - VI MATHEMATICS

### PART - I

10×1=10

#### I. Choose the correct answer :

- The difference between two successive odd numbers is  
a) 1                      b) 2                      c) 3                      d) 0
- The greatest 4 digit number which is exactly divisible by 8, 9 and 12 is  
a) 9999                      b) 9996                      c) 9696                      d) 9936
- 3 weeks = \_\_\_\_\_ days.  
a) 21                      b) 7                      c) 14                      d) 28
- 2½ years is equal to \_\_\_\_\_ months.  
a) 25                      b) 30                      c) 24                      d) 5
- 'Overhead expenses' is always included in \_\_\_\_\_.  
a) S.P                      b) C.P                      c) Profit                      d) Loss
- If two sides of a triangle are 5cm and 9cm, then the third side is \_\_\_\_\_.  
a) 5cm                      b) 3cm                      c) 4cm                      d) 14cm
- An equilateral triangle is  
a) an obtuse angled triangle                      b) a right angled triangle  
c) an acute angled triangle                      d) a scalene triangle
- What are the angles of an isosceles right angled triangle?  
a) 90°, 45°, 45°                      b) 90°, 30°, 60°                      c) 90°, 35°, 55°                      d) 90°, 40°, 50°
- S.P = M.P - \_\_\_\_\_.  
a) C.P                      b) Profit                      c) Loss                      d) Discount
- Silver Jubilee = \_\_\_\_\_ anniversary.  
a) 50<sup>th</sup>                      b) 25<sup>th</sup>                      c) 70<sup>th</sup>                      d) 60<sup>th</sup>

#### II. Fill in the blanks:

- The HCF of two successive even number is 2.
- 20 minutes = 1200 seconds.
- The only even prime number is \_\_\_\_\_.
- Sum of three angles of a triangle is 180°.
- Every triangle has atleast \_\_\_\_\_ acute angles.

#### III. Match the following:

- |                      |   |                        |
|----------------------|---|------------------------|
| 16. One right angle  | - | 12.00 hours            |
| 17. One obtuse angle | - | 14.15 hours            |
| 18. 2.15 a.m.        | - | Obtuse angled triangle |
| 19. 2.15 p.m.        | - | 2.15 hours             |
| 20. 12.00 noon       | - | Right angled triangle  |

## PART - II

VI - MATHS

## IV. Answer any ten questions:

 $10 \times 2 = 20$ 

21. Find the L.C.M. of 10, 15 using prime factorisation method.
22. I am a two digit prime number and the sum of my digits is 10. I am also one of the factors of 57. Who am I?
23. Find the ratio of the HCF and LCM of the numbers 18 and 30.
24. Convert into lower units 15km (m, cm, mm)
25. Check whether the following years are ordinary or Leap year?  
 i) 1994                                      ii) 2000                                      iii) 2010                                      iv) 2024
26. Convert 36 months into years.
27. Subtract 10 hours 20 minutes 35 seconds from 12 hours 18 minutes 40 seconds.
28. Rani bought a set of bangles for ₹ 310. Her neighbour liked it most. So, Rani sold it to her for ₹ 325. Find the profit or Loss to Rani.
29. If Guna marks his product to be sold for ₹ 325 and gives a discount of ₹ 30, then find the S.P.
30. Can a triangle be formed with 7cm, 10cm and 5cm as its sides?
31. Can a triangle be formed with the angles  $80^\circ$ ,  $30^\circ$ ,  $40^\circ$ ?
32. Convert into a tree diagram  $(9 \times 5) + (10 \times 12)$
33. Convert  $3a + b$  into Tree diagram.

$$\begin{array}{r} 500 \\ 2000 \\ \hline 2000 \end{array}$$

## PART - III

## V. Answer any Five questions:

 $5 \times 3 = 15$ 

34. What is the greatest number that will divide 62, 78 and 109 leaving remainders 2, 3 and 4 respectively?
35. What is the greatest possible volume of a vessel that can be used to measure exactly the volume of milk in cans (in full capacity) of 80 litres, 100 litres and 120 litres?
36. Saritha bought 6m and 40cm of cloth for herself and 3m and 80cm of cloth for her sister. What was the total length of the cloth bought by her?
37. The clock is set at 7 a.m. If the clock slows down two minutes every hour, find the time shown by the clock at 6p.m.
38. Somu bought a second hand bike for ₹ 28,000 and spent ₹ 2,000 on its repair. He sold it for ₹ 30,000. Find his profit or loss.
39. If two angles of a triangle are  $55^\circ$ ,  $85^\circ$ , find the third angle.
40. Convert into tree diagram  $[(9 - 4) \times 8] + [(8 + 2) \times 3]$

## PART - IV

## VI. Answer any one of the following:

 $1 \times 5 = 5$ 

41. Draw a line segment  $AB = 7\text{cm}$  and mark a point P on it. Draw a line perpendicular to the given line segment at P. (OR)  
 Draw a line segment measuring 7.8cm. Mark a point B above it at a distance of 5cm. Through B draw a line parallel to the given line segment.

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