

## COMMON SECOND TERM SUMMATIVE EXAMINATION - 2020

STANDARD - VI

Date: / /

MATHS

Time: 2.30 hrs

## I. Choose the correct answer:

- The number 87346 is divisible by
  - 2 only
  - 3 only
  - 11 only
  - All of these
- Which of the following pairs is co-prime?
  - 51, 63
  - 52, 91
  - 72, 81
  - 198, 90
- 5m 4 cm is equal to
  - 54 cm
  - 504 cm
  - 54 cm
  - 504 cm
- 3 weeks = \_\_\_\_\_ days
  - 21
  - 7
  - 14
  - 28
- If all angles of a triangle are less than a right angle, then it is called
  - an obtuse angled triangle
  - a right angled triangle
  - an isosceles right angled triangle
  - an acute angled triangle

## II. Fill in the blank:

- The number of prime numbers between 11 and 55 is \_\_\_\_\_
- The least number that should be added to 57 so that the sum is exactly divisible by 2, 3, 4 and 5 is \_\_\_\_\_
- $250 \text{ mg} + \frac{1}{2} \text{ g} = \text{_____ g}$
- Every triangle has atleast \_\_\_\_\_ acute angles.
- Computers use \_\_\_\_\_ diagram to perform billions of operations in a fraction of a second.

## III. Say true or false:

- The sum of any number of odd numbers is always even. ~~True~~
- The numbers 57 and 69 are co-primes.
- Pugazhenthir ate 10kg of nuts which is equal to 3.1kg.
- 3:15 a.m in the 24 hour format is 03:15 hours.
- Profit is the difference between CP and SP when  $CP > SP$

## IV. Match the following:

- The smallest natural number is \_\_\_\_\_ - Selling price
- 1 Kg \_\_\_\_\_ - Accuracy
- The study of devices that are measuring the time \_\_\_\_\_ - Equilateral triangle
- The price at which an item is sold \_\_\_\_\_ - 1000 grams
- All sides are equal \_\_\_\_\_ - 1

## V. Answer ANY 10 questions from the following:

- Write the smallest and the biggest two digit prime number
- Name the types through which one can find the HCF of two numbers.
- Find the HCF of 40 and 56.
- Convert 15 km into meters.
- Change the following into 12 hour format: (i) 02:00 hours (ii) 20:00 hours
- Sugan bought a Jeans Pant for 750. It did not fit him. He sold it to his friend for 710. Find the profit or loss to Sugan.
- Fill up the appropriate boxes in the following table:

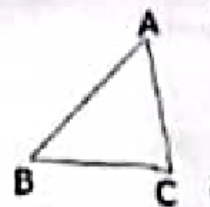
	CP	Sp	Profit	Loss
(i)	100		20	
(ii)	80			15

2

VI - Maths

28) In  $\triangle ABC$  name the

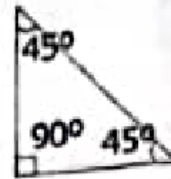
- i) Three sides : \_\_\_\_\_  
 ii) Three vertices : \_\_\_\_\_



29) Based on its sides name the triangle.



30) Based on its angles name the triangle.



31) Convert the Tree diagram into numerical expressions.

32) Convert  $B + (6 \times 2)$  into Tree diagram. $5 \times 3 = 15$ 

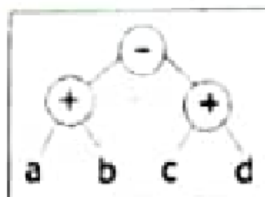
VI. Answer ANY 5 of the following:

- 33) Find the prime factorisation of 420 by factor tree method.  
 34) Find the ratio of the HCF and the LCM of the numbers 18 and 30.  
 35) Convert 480 days into years.  
 36) Pari bought a motor cycle for ₹ 55,000 and he gained ₹ 5,500 on selling the same. What is the selling price of the motor cycle?  
 37) A school purchases the some furniture and gets the following bill.

CASH BILL				
MULLAI FURNITURE MART, THANJAVUR				
BILL NO. 728			DATE: 23.04.2018	
Sl.No.	Items	Quantity	Rate (In ₹)	Amount (In ₹)
1.	Sitting bench	50	1200	60,000
2.	Writing desk	50	1500	75,000
3.	Blackboard	2	3000	6,000
4.	Chair	10	950	9,500
5.	Tables	10	1750	17,500
	Total			1,68,000

Questions:

- i) What is the name of the store?  
 ii) What is the serial number of the bill?  
 iii) What is the cost of the blackboard?  
 38) Can a triangle be formed with  $70^\circ$ ,  $60^\circ$ ,  $50^\circ$ ? *acute triangle*  
 If yes name the type of the triangle.  
 39) Convert the following Tree diagram into Algebraic expression.



VII. Answer the following:

1x5=5

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