



**School of Computing**  
**First CIA Test – December 2021**

Course Code: **CSE101**

Course Name: **Problem Solving and Programming in C**  
Year & Programme : I Year - I Sem **(Semi Lab)**

Duration: 45 minutes

Max Marks: 25

1. Draw a flowchart and write a C program to find the GCD of given two numbers and check the GCD value is equal to one then print as co-prime numbers. List out all possible co-prime numbers from 2 to 20. The co-prime numbers are the numbers whose common factor is only one. For example, 2 and 3 are co-prime numbers, because the greatest common factor is one. **(15 marks)**

Note: co-prime numbers need not be prime numbers always.

2. Write a loop that will generate every third integer, beginning with  $i = 2$  and continuing for all integers that are less than 100. Calculate the sum of those integers that are evenly divisible by 5. Use two different methods to carry out the test. **(10 Marks)**

- (a) Use the conditional operator ( $? :$ )
- (b) Use an if - else statement.

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