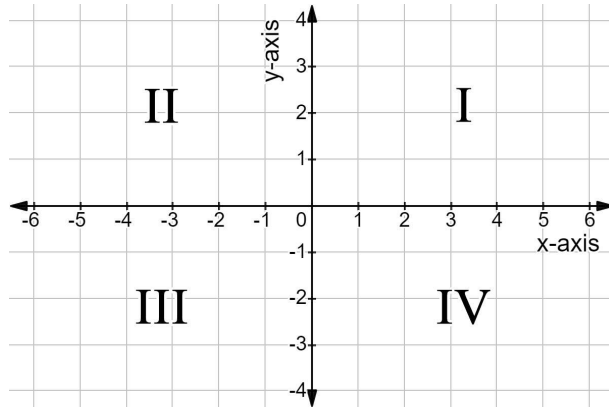


**Metropolitan University**  
**Department of Computer Science & Engineering**  
**Midterm Examination, Summer 2020**  
**Program: B.Sc. in CSE    Batch: 50<sup>th</sup>**  
**Course Code: CSE 121: Structured Programming**  
**Marks - 30**

1.     a) Write the output for `printf("%d", 'A'+2);` 1  
       b) Write a code to print all the even numbers from 200 to 300 inclusive. 4
  
2. Write a code that takes a number as input and print its multiplication table. See the sample I/O below 5  
      Input: 5  
      Output:  
      5x1 = 5  
      5x2 = 10  
      5x3 = 15  
      5x4 = 20  
      5x5 = 25  
      5x6 = 30  
      5x7 = 35  
      5x8 = 40  
      5x9 = 45  
      5x10 = 50
  
3.     a) Determine which of the following are valid or invalid **Identifier:** 3  
          CHAR, 5e15, FOR, world-map, ok, -var  
       b) In C programming, how many data types are there? Mention their names and size in bytes. 2
  
4.     a) What is ternary operator? Explain with example. 2  
       b) Differentiate between '=' and '=='. 2  
       c) What type of operator is '++'. 1
  
5. Write a program that takes a number as input and checks if the number is prime or not. 5  
      N.B. - a prime number is a number which is divisible only by 1 and itself.

6.



5

In the Cartesian coordinate system, a point is said to be in Quadrant I, if both x and y coordinate of the point is positive.

If x is negative and y is positive then it will be in quadrant II

If x is negative and y is negative then it will be in quadrant III

If x is positive and y is negative then it will be in quadrant IV.

Write a program that takes the x and y coordinate of a number as input and prints in which coordinate its position is.

Input: 3 5

Output: Quad I

Input : -2 5

Output: Quad II