GUJARAT TECHNOLOGICAL UNIVERSITY

MCA INTEGRATED – SEMESTER I- EXAMINATION –WINTER-2025

Subject Code: 2618603   **Date: 11/12/2025**
Subject Name: Fundamental of Programming-1
Time:10:30 AM TO 01:00 PM   **Total Marks: 70**
Instructions:
      1. Attempt all questions.
      2. Make Suitable assumptions wherever necessary.
      3. Figures to the right indicate full marks.
      4. Use of simple calculators and non-programmable scientific calculators are permitted.

Q.1 **(a)** Do as Directed.   **07**
      1. Size of double is _____ bytes.
      2. What is the difference between "=" and "=="?
      3. "\t" is used for _____ and "\0" is used for _____.
      4. What is L-Value in number?
      5. What is Linker?
      6. Array index can have a negative value. [T/F]
      7. Write the syntax of FOR loop.

    (b) What is algorithm? Write an algorithm to check whether the given number is prime or not.   **07**

Q.2 **(a)** What is an operator? Explain with its types.   **07**

    (b) What is Data type? Discuss different data types in details.   **07**

OR

    (b) Explain various formatted and unformatted Input and Output functions   **07**

Q.3 **(a)** What are the difference between Entry control loop and Exit control loop? Explain with example.   **07**
    (b) Write a program to find grade from marks using nested if else.   **07**

OR

Q.3 **(a)** Write a program to find maximum number from three numbers using nested if.   **07**
    (b) Explain Go to statement with program.   **07**

Q.4 **(a)** What is array? Explain types of array with example.   **07**

    (b) Write a program to find sum of digits of any numbers using Array.   **07**

OR

Q.4 **(a)** What is String? Explain various String functions.   07

(b) Write a C program to check the given string is palindrome or not (String is :   07
RADAR)

Q.5 **(a)** What is function? Explain function definition, function calling and function   07
declaration with example.

(b) Write a program in C program to find sum of two numbers using function.   07

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OR

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Q.5 **(a)** Explain various storages class in C   07

(b) Write a C program to display the following output.   07
```
*
*  *
*  *  *
*  *  *  *
```

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