Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA Integrated - SEMESTER- I • EXAMINATION - WINTER 2015

Subject Code: 4410603 Date: 30/12/2015 Subject Name: Fundamentals of Programming - I Time: 10:30 AM to 1:00 PM **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. (a) Fill in the Blanks **Q.1** 07 1) C was developed by _____ 2) To terminate execution of nearest enclosing loop ______ statement is 3) The statement is used to transfer control to specified label. 4) Function that call itself is known as a function. 5) is a collection of similar data elements. 6) _____ string manipulation function is used to find out length of string. 7) The _____ statement is used to skip statements in loop. **(b)** Explain flowchart with different symbols used to draw it. **07** 07 0.2 **State True or False** 1) The variable amt is same as AMT in c. 2) The do-while loop is a post test loop. 3) The default storage class of local variable is extern. 4) A function must have at least one argument. 5) An array stores all its data elements in consecutive memory location. 6) A string "Hello World" can be read using scanf (). 7) All arithmetic operators have same precedence. **(b)** Explain Generation of programming language. 07 **(b)** What is Array? Explain two dimensional arrays with example. 07 0.3 (a) List and explain different type specifiers for printf (). **07 (b)** I) Explain basic data types available in c. 04 II) What is variable? Provide rules for variable declaration. 03 OR (a) List and explain different types of operator available in C (Explain any Two). 07 **Q.3** What is UDF? Explain its types. 07 **Q.4** Explain if statement and if-else statement with example. 07 (a) **(b)** Explain While loop and Do while loop. **07** (a) Explain break and continue statement with example. **Q.4** 07 **(b)** What is Recursive Function? Explain it with proper example. 07 Q.5 (a) List and explain different storage classes of variable available in C. **07 (b)** Write a program to input 10 values from user in array and find its average. **07**

OR

Q.5 (a) Write a program to enter a string and find out that string is palindrome or not.
(b) What are string manipulation functions in C? Explain any two with example.
07
07
