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GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER I- EXAMINATION -WINTER-2024

Date: 09/01/2025

Subject Code: MC01094011 **Subject Name: Programming with C** 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) Answer the following question. 07 i. _____ Keywords are available with C. ii. _ Symbol is used for input and output in Flowchart. function is used to compare two string. iii. A function which calls itself is called _ iv. Pointer variable can point to pointer is called v. _____ is an array of the Command-Line Arguments. vi. _____ mode is used to open an existing file for both reading and vii. writing purpose. (b) What is Programming Language? Describe the classification of Programming 07 Languages. **Q.2** Explain different input and output function used in C. 07 Write a C program to find out the maximum and minimum number from given 07 10 numbers. OR **(b)** Explain the process of Compilation in detail. 07 0.3 What is pre-test loop? Describe pre-test loop used in C language in detail with 07 (a) proper example. **(b)** Explain different function used to read text file from the disk and write a text file 07 in to the disk with suitable example. 0.3 (a) Describe Pointer to function in detail with example. 07 **(b)** Discuss various Special control statement used in C with example. 07 What is an Operator? Explain Relational and Logical operator used in c in detail 07 0.4 with suitable example. What is User Defined Function? Explain function prototype declaration, 07 Function calling and function definition. What is C preprocessor? Discuss different Preprocessor Directives used in c. 07 0.4 What is Dynamic Memory Allocation? Explain various function used for 07 Dynamic Memory Allocation. (a) Discuss different Storage Class Specifiers used in C language with example. 07 Q.5 Discuss nesting of Structure in detail with example. 07 OR Write a C program to compare two files given by the user, and displaying a **Q.5** 07 message indicating whether the files are identical or different. **(b)** Write a short note on Enumeration type and Bit fields. 07
