Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- I • EXAMINATION - WINTER • 2014

Subject Code: 610001 Subject Name: Fundamentals of Programming Time:10:30 am - 01:00 pm Instructions: Date: 23-12 Total Mar			
Q.1	(a)	What is Procedure Oriented Programming Language (POPL)? What are the advantages of POPL?	07
	(b)	Explain various types of loops used in programming languages.	07
Q.2	(a)	How switch keyword is used in programming language? Explain with suitable example.	07
	(b)	Explain use of strcat(), strcmp() and strcpy() functions with proper example. OR	07
	(b)	What is an array? How memory will be allocated for the array? Explain with proper example.	07
Q.3	(a) (b)	Explain increment, decrement and conditional operators with example. List advantages of function. Explain various types or category of functions. OR	07 07
Q.3	(a)	Explain bitwise operators with proper example.	07
•	(b)	What is automatic, external, static and register variable? Explain with proper example.	07
Q.4	(a)	What is structure within structure? Where it is used? Explain with proper example.	07
	(b)	What is recursion? Write a recursive function to add first n number, where n is given by the user.	07
Ο 1	(a)	OR What is the groups coses of What took does it newform? Explain in details	07
Q.4	(a) (b)	What is the preprocessor? What task does it perform? Explain in details. Write a programme to add two matrix using pointers.	07 07
Q.5	(a) (b)	Explain various file open modes in details. What is singly link list? Write a programme to add and delete node from the singly link list.	07 07
<u> </u>		OR	
Q.5	(a)	Write a command line programme which will do the addition, substation, multiplication and division of the given two numbers.	07
	(b)	Write a programme to find the number of characters and words from the given file.	07
