

GUJARAT TECHNOLOGICAL UNIVERSITY
BE- SEMESTER– 1st / 2nd • EXAMINATION – SUMMER 2016

Subject Code: 110003

Date: 04/06/2016

Subject Name: Computer Programming and Utilization

Time: 02:30 PM to 05:00 PM

Total Marks: 70

Instructions:

1. **Attempt any five questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

- Q.1** (a) What is Algorithm and Flow chart? Explain with example. **07**
(b) Explain features of C. **07**
- Q.2** (a) Explain If, If-else, If-else if ladder with example. **07**
(b) Explain different C tokens with appropriate examples. **07**
- Q.3** (a) Explain Entry control and Exit control loops with example. **07**
(b) Write C program using **Switch-Case** that reads a number from 1 to 7 and accordingly it should display MONDAY to SUNDAY. **07**
- Q.4** (a) Write C program using **If-else if ladder** to read marks from keyboard and your program should display equivalent grade according to following table **07**
- | <u>Marks</u> | <u>Grade</u> |
|--------------|--------------|
| 100-80 | Distinction |
| 60-79 | First Class |
| 35-59 | Second Class |
| 0-34 | Fail |
- (b) Explain different data type used in C. **07**
- Q.5** (a) What do you mean by a recursive function? Explain with example. **07**
(b) Explain Implicit and Explicit type casting. **07**
- Q.6** (a) Explain different String Functions. **07**
(b) Write C function to print factorial of number between 1 to 20 **07**
- Q.7** (a) Whis is Pointer in C and how it initializes? State its advantages. **04**
(b) Attempt any Two **10**
- i) File management functions.
 - ii) Explain difference between Structure and union with example.
 - iii) What is an Array? Write program to add two 1-D array elements in third 1-D array.
