

GUJARAT TECHNOLOGICAL UNIVERSITY**PDDC - SEMESTER-I • EXAMINATION – WINTER • 2014****Subject Code: X10002****Date: 26-12-2014****Subject Name: Computer Programming and Utilization****Time: 10:30 am - 01:00 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 are the Relational operators? List them and explain their purpose. **07**
- (b) Distinguish between programming languages “C” and “C++” **07**
- Q.2** (a) Write a program to print following output using for loop. **07**
- 1
1 2
1 2 3
1 2 3 4
- (b) Explain algorithm and flowchart with simple C program. **07**
- Q.3** (a) Write a note on function of type void. **07**
- (b) Write a program that reads number from 1 to 7 and accordingly it Should print **07**
MONDAY to SUNDAY.
- Q.4** (a) What is recursive function? Explain with example. **07**
- (b) Write a program to read in five numbers and compute the average, maximum **07**
and minimum values.
- Q.5** (a) What is pointer? How is a pointer initialized? Explain with small example. **07**
- (b) Write a note on: Generations of programming languages. **07**
- Q.6** (a) In what way main () is different from the rest of the functions? **07**
- (b) Compare the switch statement with the nested-if statements. **07**
- Q.7** (a) Draw and explain the detail block diagram of a Digital computer. **07**
- (b) Explain ‘break’ and ‘continue’ using example. **07**
