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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-I &II (SPFU) EXAMINATION - SUMMER-2019

Subject Code: CPU002 Date: 01/06/2019

Subject Name: Computer Programming and Utilization-2

Time: 10:30 AM TO 01:00 PM Total Marks: 70

Instructions:

Q.6

0.7

(a)

(a)

(b)

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

Q.1	(a) (b)	Explain the major components of computer system with the proper diagram. Explain arithmetic and relational operator with an example.	07 07
Q.2	(a) (b)	Write a C program to find factorial of a given number. Write a C program to print following pattern: * ** ** ** ** ** ** ** ** *	07 07
Q.3	(a) (b)	Explain the use of elseif ladder with an example. Explain switch statement with an example.	07 07
Q.4	(a) (b)	Differentiate entry controlled loop and exit controlled loop. Write a C program to find maximum value out of array of 10 elements.	07 07
Q.5	(a) (b)	What is recursion? Explain with an example. Write a C program to find sum of two numbers using user defined function.	07 07

What is pointer? Explain the concept of call by reference with an example.

What is the significance of malloc, calloc and realloc?

Write the syntax and significance of fopen(), fclose() and ftell().

Explain any three string handling functions with an example.

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