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# B.Tech I Year II Semester (R15) Regular Examinations May/June 2019

## **COMPUTER PROGRAMMING**

(Food Technology)

Max. Marks: 70

Time: 3 hours

### PART – A

#### (Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
  - (a) Differentiate between hardware and software with examples.
  - (b) List out relational and logical operators.
  - (c) Give the syntax of switch statement with example.
  - (d) Write any two initializations of arrays.
  - (e) What is a pointer? Differentiate between \* and & with pointers.
  - (f) What are the advantages of call by reference?
  - (g) What are command line arguments?
  - (h) What is enumerated data type? Give an example.
  - (i) Write the modes and their meaning of opening a file.
  - (j) What is the use of # define preprocessor directive? Give an example.

#### PART – B

(Answer all five units, 5 X 10 = 50 Marks)

## UNIT – I

2 Discuss the advantages of algorithms and flowcharts. Develop a flowchart for finding largest of the given 'n' elements.

### OR

- 3 Explain the precedence and order of evaluation of operators. Compute the result of following expressions:
  - (a) 5/8 \* (7 + 4).
  - (b) 5 % 8 \* (7 4).

# UNIT – II

4 Write the syntax of if, nested if and if-else-if ladder. Write a C program to check whether a given number is odd or even.

#### OR

5 Discuss how do you pass single-dimensional array to a function. Write a function to return the sum of the elements. Which are passed in an array to the function?

### (UNIT – III)

6 Discuss the relation between pointers and array. Write a C program to find the largest elements in the array elements using a pointer.

### OR

7 Differentiate between call by value and call by reference. Demonstrate the difference by writing two functions to swap two elements.

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# UNIT – IV

- 8 What is recursion? Write a recursive function to compute n<sup>th</sup> Fibonacci number.
  - (n<sup>th</sup> Fibonacci number is given by:
    - f(n) = f(n-1) + f(n-2).
    - f(0) = 1 f(1) = 1.

# OR

9 Differentiate between structures and unions. Write a C program to create a list of students with Roll No, Name, semester and percentage. Accept Roll No from keyboard, search and display the other details of the student.

## UNIT – V

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10 Discuss the formulated and unformatted console I/O statements in C with examples.

#### OR

- 11 Explain the following file handling functions in C.
  - (i) Fread.
  - (ii) Fwrite.
  - (iii) Fseek.
  - (iv) Fprintf.
  - (v) Fscanf.

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