Code: 15A05101

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B.Tech I Year I Semester (R15) Regular & Supplementary Examinations November/December 2018

COMPUTER PROGRAMMING

(Common to all branches)

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$

- (a) What is software? Give at least two examples for system software and application software.
- (b) Write an algorithm to find the largest number among three numbers.
- (c) Distinguish between continue and break statements.
- (d) Write a program in C to find the sum of numbers present in an array.
- (e) List the advantages of functions.
- (f) Predict the result for the following code

const int i = 5;

i++;

printf("i value = %d",i);

- (g) Define recursion.
- (h) In what way actual arguments differ from formal arguments.
- (i) Write the syntax to read string from the keyboard. Give example.
- (j) How can we read the character and set of characters? Give examples for each one.

PART - B

(Answer all five units, $5 \times 10 = 50 \text{ Marks}$)

UNIT – I

- 2 (a) Using conditional operator write a C program to find the largest number from two numbers.
 - (b) Draw the typical block diagram for a computer. Explain it in detail.

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- 3 (a) What is a flow chart? List and explain the different notations used to represent a flowchart.
 - (b) Write a C program to find the sum of first six natural numbers.

UNIT – II

- 4 (a) How arrays differ from normal variables? Write a C program to find the largest number present in an array.
 - (b) In what way if statements differ from switch case statements.

OR

Write a program in C language to perform the matrix multiplication.

UNIT – III

- 6 (a) Describe the pointer to pointer mechanism.
 - (b) Illustrate the mechanism of passing the pointer variables as arguments to the functions.

OR

7 How can we define the scope of a function? List the rules for defining the scope of a variable. Give brief description about the differ storage specifiers.

UNIT – IV

- 8 (a) Distinguish between structures and unions.
 - (b) Explain with example structures within structures.

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- 9 (a) List the advantages of using functions. In what way a built in function differs from user defined function.
 - (b) Write short notes on command line arguments.

UNIT – V

- 10 (a) Write and explain the different types of files.
 - (b) Describe the macros with suitable example.

OR

- 11 (a) Give brief description about the various modes of a file.
 - (b) Explain the role of files in C programming.