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B.Tech I Year I Semester (R15) Supplementary Examinations June 2017

COMPUTER PROGRAMMING

(Common to CE, EEE, CSE, ECE, ME, EIE and IT)

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
 - (a) Define computer hardware.
 - (b) List the data types and their sizes of C language.
 - (c) Give an example of iteration statements in C.
 - (d) Illustrate with an example, the declaration and initialization of an array.
 - (e) Discuss any two storage class specifiers.
 - (f) What are the problems with pointers?
 - (g) Illustrate the need of structures with an example.
 - (h) Differentiate between structure and union types.
 - (i) Write a sample C program to demonstrate the control string of scanf() function.
 - (j) Discuss the types of streams.

PART - B

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

UNIT - I

- 2 (a) Write an algorithm to find the roots of a quadratic equation.
 - (b) List and explain the various symbols used in flowchart with figures.

OR

- 3 (a) Write an algorithm to check the given number is perfect number or not.
 - (b) Explain the bitwise operators and relation operators available in C program.

UNIT - II

4 Discuss selection statements with a suitable example for each.

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Write a C program for matrix multiplication.

[UNIT - III]

6 Explain dynamic memory allocation functions of C with a suitable example.

OR

7 Compare call by value with call by reference and explain using a suitable example.

UNIT - IV

8 Write a C program to demonstrate the use of array of structures.

OR

9 What is union? Write a C program to store information in a union and display it.

[UNIT - V]

Write a C program to read name and marks of N number of students from user and store them in a file.

OR

11 Write a C program to demonstrate the use of fscanf and fprintf functions.