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First/Second Semester B.E. Degree Examination, June/July 2019 C Programming for Problem Solving

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

With a neat block diagram of computer, explain its components. (10 Marks)

b. Classify the following into input and output devices:

Monitors, visual display unit, Track balls, Bar code reader, Digital camera, Film recorder, Microfiche, OMR, Electronic Whiteboard, Plotters. (05 Marks)

c. Define the terms: Network, LAN, WAN, MAN and network topology. (05 Marks)

OR

2 a. Write the basic structure of C program. Explain each section briefly with suitable example.

(09 Marks)

Define operator. Explain any 6 operators with suitable example. (07 Marks)

c. State whether the following are valid identifiers or not: integer, float, I am, 123 AbC.

(04 Marks)

Module-2

a. Define and write the classification of Input and Output statements in C. Write a C-program that prints the following output:

I am

an

E nj;im-etY;fj

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(06 Marks) (10 Marks)

Define branching statements. Explain them with syntax and suitable example.

C. Evaluate: i = 1

printf ("Sunday");

Explain your result briefly.

(04 Marks)

OR

4 a. State the drawback of ladder if-else. Explain how do you resolve with suitable example. (08 Marks)

b. Write a C program to get the triangle of numbers as a result:

12 123 123

(06 Marks)

c. Write a C program to check whether given number is prime or not.

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Module-3

- a. Define an array. Explain with suitable example how do you declare and initialize ID array.
 (10 Marks)
 - b. Write a C program to search an element using linear and binary techniques. (10 Marks)

OR

a. Define a string. Explain any 4 string library functions with syntax and example. (10 Marks)
 b. Write a C program to copy a string (combination of digits and alphabets) to another string (only alphabets). (10 Marks)

Module_4

a. Define a function. List and explain the categories of user defined functions. (10 Marks)
 b. Write a C-program for evaluating the binomial coefficient using a function Factorial (n). (10 Marks)

OR

- 8 a. Define a recursion. Write a C recursive function for multiplying two integers where a function call is passed with two integers m and n. (10 Marks'
 - b. Differentiate: (1) User defined and built-in function (ii) Recursion and iteration (10 Marks)

Module_5

- a. Define structures. Explain how do you declare, initialize and represent the memory for structure variable. (10 Marks)
 - Write a C program that accepts a structure variable as a parameters to a function from a function call.

-OF

- a. Define pointers. Explain pass by value and pass by reference with C statements and an example. (10 Marks)
 - b. Define pre-processor directives. Write C program that finds the addition of two squared numbers, by defining macro for Square (x).

