Code: 15A05101 **R15**

B.Tech I Year I Semester (R15) Supplementary Examinations June 2016

COMPUTER PROGRAMMING

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

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

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1 Answer the following: (10 X 02 = 20 Marks)

(a) What is the size of integer data type?
(b) Illustrate in which order any mathematical expression is evaluated.
(c) What is the size required to store any array of 25 integers?
(d) Explain call by reference.
(e) What does this statement indicate p = **a; where p and a are variables?
(f) How many maximum arguments can be passes by return ( )?
(g) Define command line arguments.
(h) Declare a struct *name* containing field's first_name, middle_name, last_name within a *struct student.*
(i) How to define a global constant?
(j) Write a statement to open a file in reading mode.

PART – B

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

UNIT – I

2 Write an algorithm to add a list of n elements and display them in ascending order.

OR

3 Write a program in 'C' language to print the Fibonacci series.
Fibonacci series is 0, 0, 1, 1, 2, 3, 5, 8, 13, 21

UNIT – II

4 What is the condition to multiply two matrices? Write a 'C' program to multiply two matrices.

OR

5 Write a program to print an array in reverse order.

UNIT – III

6 Write a function to swap two integer elements.

OR

7 Explain pointers and arrays with some example programs.

UNIT – IV

8 Differentiate between structure and unions.

OR

9 Write a program using command line to print the statement "I am proud of my country".

UNIT – V

10 Explain FILE structure in detail.

OR

11 Describe formatted input output statements.

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