

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)

- 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.
