

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 passed 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 – I2 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.
