

B.Tech I Year I Semester (R15) Regular & Supplementary Examinations December 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)
- Define precedence and order of evaluation.
 - List the importance of Flowchart.
 - Write syntax of If-else statements.
 - How one Dimensional array is initialized?
 - Discuss the problems associated with pointers.
 - Define type qualifiers.
 - Define function prototype. Give the general syntax of function prototype.
 - Why do we need structures?
 - What is the problem with getchar ()?
 - Define Stream. List different types of Streams.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)**UNIT – I**

- 2 (a) Write an algorithm to find the distance between two points in plane.
(b) With an example, explain the structure of C program.
- OR**
- 3 (a) Explain the bitwise operators and relation operators available in C program.
(b) Evaluate the following expressions:
(i) $a*(3+b)/2-c++ *b$ where $a=3, b=4$ and $c=5$
(ii) $!(4+5*0 >= 6-4)$

UNIT – II

- 4 (a) Explain switch case statement with an example program.
(b) Write a C program to check whether a given number is Palindrome or not.
- OR**
- 5 (a) Explain for loop statement with syntax with an example.
(b) Define an array. Write a program to find the largest and smallest element in a given array.

UNIT – III

- 6 (a) Define Pointer. Write a C program to find the sum of the all elements in given array using pointers.
(b) Define scope. Briefly explain the scope, life time and visibility of Identifier.
- OR**
- 7 (a) List the different storage classes in C and explain each one of them.
(b) Write a C program to exchange the value of two integers using call by reference.

Contd. in page 2

Code: 15A05101

R15**UNIT – IV**

- 8 (a) Define structures. Write a C program using functions to return the sum of two complex numbers passed as parameters.
(b) Explain enumerated data types with an example.

OR

- 9 (a) Define union. Differentiate between union and structures.
(b) With an example program, explain structure within structure.

UNIT – V

- 10 (a) Explain fprintf() and fscanf() functions with an example program.
(b) Define Preprocessor directives. Discuss Macro replacement with an example.

OR

- 11 (a) Write a C program that reads characters from the keyboard and writes them to a disk file until the user types a dollar sign.
(b) What is Flushing a Stream? Discuss function like Macro With an example.

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