

Code: 15A05101

B.Tech I Year I Semester (R15) Supplementary Examinations June 2018

**COMPUTER PROGRAMMING**

(Common to all branches)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- What are the bitwise operators in C?
  - Justify the significance of operator precedence with an example.
  - List the string functions in C.
  - Write a C program for call by reference.
  - Illustrate with a suitable example the use of return statement.
  - Explain malloc() function.
  - Illustrate recursion with an example.
  - What is the use of typedef in C?
  - Discuss pre-processor directives in C.
  - List the basic console I/O functions.

**PART – B**

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

**UNIT – I**

- 2 (a) Discuss about procedural oriented languages.  
(b) Explain in detail about the software development method.
- OR**
- 3 (a) Write an algorithm to find the distance between two points in plane.  
(b) Explain the bitwise operators and relation operators available in C

**UNIT – II**

- 4 What are the different types of arrays in C? Explain with a suitable example, array declaration, initialization and accessing of the elements for these different types.

**OR**

- 5 Write a C program to calculate the sum of all elements of an array using pointers as arguments.

**UNIT – III**

- 6 What is a pointer? Write a program in C to reflect the concept of pointers to functions.

**OR**

- 7 Illustrate with an example, the significance of argc and argv arguments passed to the main function.

**UNIT – IV**

- 8 Explain all the function prototypes with examples.

**OR**

- 9 Demonstrate with a suitable example, the use of structure within a structure.

**UNIT – V**

- 10 Write a program in C to illustrate the use of rewind and fseek functions.

**OR**

- 11 Write a program in C that reads files and displays them on the screen.

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