

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)

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

- (a) What are the bitwise operators in C?
- (b) Justify the significance of operator precedence with an example.
- (c) List the string functions in C.
- (d) Write a C program for call by reference.
- (e) Illustrate with a suitable example the use of return statement.
- (f) Explain malloc() function.
- (g) Illustrate recursion with an example.
- (h) What is the use of typedef in C?
- (i) Discuss pre-processor directives in C.
- (j) 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.
