

Code No: 132AD

R16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech I Year II Semester Examinations, August - 2019

COMPUTER PROGRAMMING IN C

(Common to EEE, ECE, CSE, EIE, IT, ETM)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c, as sub questions.

PART- A

(25 Marks)

- 1.a) Write about Program Development steps in brief. [2]
- b) Write a flowchart for electricity bill payment. [3]
- c) Explain about scope rules. [2]
- d) Explain types of Arrays in brief. [3]
- e) Write about Pointer Arithmetic with an example. [2]
- f) Write a program for arrays of pointers in C. [3]
- g) Explain self referential structures in brief. [2]
- h) Write short note on Enumerations. [3]
- i) Write about File streams. [2]
- j) Write a program for Opening and Closing files. [3]

PART-B

(50 Marks)

- 2.a) Explain in detail about Selection Statements in C. [5+5]
- b) Define Algorithm. Explain with an example. OR
- 3.a) Explain in detail about Computer Languages. [5+5]
- b) Discuss about Expressions in detail.
- 4.a) Explain types of Functions. [5+5]
- b) Explain multidimensional arrays in detail. OR
- 5.a) Write a program to implement bubble sort. [5+5]
- b) Explain about recursive functions in detail.
- 6.a) Discuss about Pointers for inter function communication. [5+5]
- b) Explain about String manipulation functions. OR
- 7.a) Explain in detail about void pointer with examples. [5+5]
- b) Explain String Concepts in detail.

8.a) Define Structure and explain initialization of structures with an example. [5+5]
b) Discuss about Pre-processor commands.

OR

9.a) Write a C program to implement unions. [5+5]
b) Explain functions with an example program.

10.a) Explain Binary File modes in brief. [5+5]
b) Write a C program to implement feof() and ferror() functions.

OR

11.a) Explain about fseek(), ftell() and rewind() file functions with examples. [5+5]
b) Write a C program reverse the contents of a given file.

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