

R13

Code No: 111AF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech I Year Examinations, May - 2016

COMPUTER PROGRAMMING

(Common to CE, EEE, ME, ECE, CSE, EIE, IT, MCT, MMT, AE, AME, MIE,
PTE, CEE, MSNT, AGE)

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) What are the relational operator? [2]
- b) Give syntax of simple if – else statement. [3]
- c) Give general Syntax to declare one dimensional array. [2]
- d) What do you mean by call by value? [3]
- e) What is the use of strcmp() function? [2]
- f) Explain pointer to structure in detail. [3]
- g) Discuss briefly about typedef. [2]
- h) What is the use of rewind()? [3]
- i) Give an example to explain the concept of singly linked list. [2]
- j) Write short notes on binary search. [3]

PART-B

(50 Marks)

2. What is a datatype? Explain different datatypes in C. [10]

OR

3. Write a C Program to print equivalent octal number of given decimal number. [10]

4. How an array can be passed to a function? [10]

OR

5. Write a C Program to sort an array in descending order. [10]

6. Write a C program that reads a *sentence* and prints frequency of each of the vowels and total count of consonants. [10]

OR

7. Explain the concept of pointers. Also explain operations on pointers and array of pointers. [10]

8. Write a C program to maintain a record of "n" student details using an array of structures with four fields (Roll number, Name, Marks, and Grade). Each field is an appropriate data type. Print the marks of the student given student name as input. [10]

OR

9. Write a program that accepts the source and destination filenames from the command line and copy the file from source to destination. Include a check on the number of arguments passed. [10]

10. Write a C program to read n unsorted numbers to an array of size n and pass the address of this array to a function to sort the numbers in ascending order using Selection sort technique. [10]

OR

11. Give an examples to show how push and pop operations are performed in stack. [10]

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