

R15

Code No: 121AF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech I Year Examinations, August – 2018

COMPUTER PROGRAMMING

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

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) Define Type conversion and give an example. [2]
- b) What is Operator Precedence in Expression Evaluation? [3]
- c) List the applications of arrays. [2]
- d) What are preprocessor commands? [3]
- e) Explain array of strings. [2]
- f) What is Pointer? Write down its applications. [3]
- g) Write any two differences between structure and union. [2]
- h) Explain file status functions. [3]
- i) What are the drawbacks of linear search? [2]
- j) List and explain the stack operations. [3]

PART-B

(50 Marks)

2. Explain the following operators:
 - a) Relational Operators
 - b) Bitwise Operators
 - c) Conditional Operator. [10]

OR

- 3.a) Describe the procedure of creating and running a C program.
- b) What is an Identifier? List the rules to declare and define an identifier. [5+5]
4. What is meant by the scope of variables and explain the types of storage class in C?[10]

OR

- 5.a) Write a C program to find the factorial of a given number using recursion.
- b) What is an Array? Explain the representation and Indexing of Two-dimensional array. [5+5]

- 6.a) Explain briefly about the pointer arithmetic.
b) Write a C program to reverse a string without using `strrev()` function. [5+5]

OR

- 7.a) Describe briefly about the pointers to pointers with example.
b) Explain in detail about the String Input/output functions. [5+5]

8. Write a C program to create a marks sheet for students and calculate the average marks obtained by each student using Structures. [10]

OR

- 9.a) Explain in detail about the Enumerated types.
b) Differentiate between text and binary files in detail. [5+5]

10. Explain Binary Search method with an example. [10]

OR

11. What is Queue? Describe Enqueue and Dequeue operations of Queue. [10]

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