

**Code No: 121AF****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech I Year Examinations, May - 2016****COMPUTER PROGRAMMING****(Common to CE, EEE, ME, ECE, CSE, EIE, IT, MCT, ETM, MMT, AE, AME, MIE, PTE, 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) Write brief notes on computer languages. [2]
- b) Discuss the significance of 'continue' statement with an example. [3]
- c) What is meant by type qualifiers? [2]
- d) Explain scope of a variable with an example. [3]
- e) What are the memory allocation functions? [2]
- f) What is meant by array of pointers? When it will be used. [3]
- g) Explain about positioning functions. [2]
- h) Discuss about bit fields. [3]
- i) Explain Enqueue operations. [2]
- j) What is meant by sorting? Give an example. [3]

**PART-B****(50 Marks)**

2. Write a C program to find factorial of a given number 'N' by using iteration and recursion separately. [10]

**OR**

3. Explain switch statement. Explain its usage with a sample C-program. [10]

4. What are the storage classes in C? Explain their usage with a sample C-program. [10]

**OR**

5. Explain inter function communication with a C-program. [10]

6. Explain pointer arithmetic with a sample C-program. [10]

**OR**

7. What are the string manipulation functions? Explain their usage. [10]

8. What is meant by structure? Discuss with a C-program about operations on structures. [10]

**OR**

9. What is meant by state of a file? Discuss about file status functions. [10]

10. Write a C-program for implementing operation of singly linked list. [10]

**OR**

11. Write a C-program for implementing Dequeue operations. [10]

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