Code No: 121AF

R15

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 implementation of singly linked list. [10]

OR

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

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