Code No: 111AF

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD
B.Tech I Year Examinations, June - 2014
COMPUTER PROGRAMMING
(Common to all Branches)

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

1.a)	Distinguish between variables and constants.	[2m]
b)	What is inter function communication?	[3m]
c)	Write brief notes on memory allocation functions.	[2m]
d)	Discuss about bit fields.	[3m]
e)	Describe the dequeue operations.	[2m]
f)	Discuss briefly about goto statement.	[3m]
g)	Write the array applications.	[2m]
h)	Describe arrays of strings.	[3m]
i)	Write brief notes on unions.	[2m]
j)	Explain binary search.	[3m]

PART- B

2. State and explain various identifiers in C program. And also discuss about operator precedence in expression evaluation with a suitable example.

OR

3. Explain with a sample program about while, for, do-while and switch statements in C programming.

4. What are type qualifiers? Write recursive and iterative approaches programs to find factorial of a given number.

OR

5. What are type qualifiers in a C program? And write a C program to find product of two n × n matrices.

6. Explain pointer arithmetic. Discuss with a suitable example how to pass an array to a function.

OR

7. Discuss various applications of pointers. State and explain with a sample program various string manipulation functions.

8. Explain about declaration, initialization and accessing of structures. And also discuss about complex structures.

OR

9. What are file streams? Discuss about state of file, opening and closing file with a sample C program.

10. Explain selection sort and bubble sort with a suitable example.

OR

11. What are searching operations on linear lists? Explain the singly linked list implementation.

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