Max. Marks: 75

Code No: 131AD

Time: 3 hours

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech I Year I Semester Examinations, December - 2017 COMPUTER PROGRAMMING IN C

(Common to CE, ME, MCT, MMT, AE, MIE, PTM, CEE, MSNT)

Note:	This question paper contains two parts A and B.	
	Part A is compulsory which carries 25 marks. Answer all questions in	
	Part B consists of 5 Units. Answer any one full question from each unit	t. Each
	question carries 10 marks and may have a, b, c as sub questions.	
PART- A		
	(25	Marks)
1.a)	Explain rules of variables. [2]	
b)	Give the symbols of flow chart. [3]	
c)	What are the limitations of recursion. [2]	
d)	What are uses of binary search as compared with linear search. [3]	
e)	Differentiate between gets() and scanf(). [2]	
f)	List the substrings that can be formed from the string "ABCD". [3]	
g)	Differentiate between Union and Structure. [2]	
h)	Explain about the typedef with an example. [3]	
i)	What is the use of rewind()? [2]	
j)	What is the impact of fclose() on buffered data. [3]	
PART-B		
	(50	Marks)
2.a)	Explain the different types of bitwise operators are used in C.	
b)	Write an algorithm to find the greatest number among the three given numbers.	[5+5]
0)	OR	
3.a)	Write a program to swap the two numbers without using a temporary variable.	
b)	Explain the different types of operators are used in C.	[5+5]
0)	Explain the different types of operators are used in c.	
4.a)	Write a program to implement the binary search by using functions.	
b)	Explain the two dimensional arrays for Inter Function Communication.	[5+5]
,	OR	
5.a)	Write a program to generate Pascal's triangle by using an array.	
b)	What is recursion? Explain the different types of recursion.	[5+5]
6.a)	Explain the dynamic memory functions.	
b)	Write a program to count the number of times a given character appear	
	string.	[5+5]
OR		
7.a)	Write a program to sort the names of employees alphabetically.	F.C
b)	Explain the rules for pointer operations.	[5+5]
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- 8.a) Write a program using pointer to structure to initialize the members in the structure. Use functions to print the student's information.
 - b) Explain the Enumerated data types with an example.

[5+5]

OR

- 9.a) Explain the command line arguments with an example.
 - b) Write a program to define a structure for hotel that has members name, address, grade, number of rooms and room charges. Write a function to print the names of a hotel in a particular grade. Also write a function to print names of a hotel that have room charges less than the specified value.

 [5+5]
- 10.a) Explain the different types of files are used in C.
 - b) Write a program to print the records in reverse order. The file must be opened in binary mode. [5+5]

OR

- 11.a) Write a program to append a binary file at the end of another.
 - b) Explain the function calls of fseek().

[5+5]

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