**R16** 

## Code No: 132AD

b)

manipulation function.

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech I Year II Semester Examinations, May - 2019 COMPUTER PROGRAMMING IN C (Common to EEE, ECE, CSE, EIE, IT, ETM)

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)

[5+5]

		(25 Marks)
1.a)	Explain the conversion of Decimal number to Hexadecimal number with an e	example. [2]
b)	Differentiate between declaration and definition of a variable.	[3]
c)	What is a user defined function?	[2]
d)	What is the use of type qualifier?	[3]
e)	Differentiate between *p++ and p++.	[2]
f)	What is a pointer? Explain how the pointer variable declared and initialized.	[3]
g)	Explain about the structures containing pointers with an example.	[2]
h)	Explain about self-referential structures.	[3]
i)	What is the usage of fget() and fput() functions.	[2]
j)	List the positioning functions in files.	[3]
	PART-B	
		(50 Marks)
2.a)	Describe different Computing Environments.	
b)	Explain about type conversion mechanism available in C language. <b>OR</b>	[5+5]
3.a)	Write an algorithm to find the factorial of a given number.	
b)	Differentiate between While and Do While with an example.	[5+5]
4.a)	Explain the different types of storage classes with an example.	
b)	Write a program to search the element in the given list by using the binary sea <b>OR</b>	arch. [5+5]
5.a)	Write a program to sort the elements by using bubble sort.	
b)	What is recursion? Explain the limitations of recursion.	[5+5]
6.a)	Write a program to find the length of the given string.	
b)	Explain the memory allocation functions with an example.	[5+5]
	OR	
7.a)	Explain the concept of pointers to pointers with an example.	

Write a 'C' program to append a string to the end of other string by using string

8.a)	Explain about the enumerated data types with an example.	
b)	Explain about bit fields with an example.	[5+5]
	OR	
9.a)	Explain how the structure variable passed as a parameter to a function with example.	
b)	Explain the Command line arguments with an example.	[5+5]
10.a)	Differentiate between text and binary files with an example.	
b)	Write a 'C' program to append the contents of one file to another.	[5+5]
	OR	
11.a)	Write a 'C' program to count number of words and lines in the given text file.	
b)	Explain about file i/o operations in 'C'.	[5+5]

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