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# Code No: 821AC JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA I Semester Examinations, January - 2018 COMPUTER PROGRAMMING USING C

#### **Time: 3hrs**

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

# $5 \times 5$ Marks = 25

5 × 10 Marks - 50

1.a)	Write a program to convert the Fahrenheit into degree Celsius.	[5]
b)	Explain the recursive function with an example and also give its limitations.	[5]
c)	Explain the drawbacks of pointers in detail.	[5]
d)	Explain the functions of read and write characters.	[5]
e)	Explain about the rewind () with an example.	[5]

### PART - B

	$5 \times 10$ M	larks = 50		
2.	Explain the classification of computer software.	[10]		
3	OR Explain the different types of operators are used in C.	[10]		
4	Explain about user defined functions and inter function communication.	[10]		
5. a) b)	Write a program to find the GCD of given numbers by using functions. Explain the type qualifier with an example.	[5+5]		
6.	Write a program to read a matrix and displays sum of the elements below diagonal.	the main [10]		
OR				
7.a)	Explain the pointers for inter function communication			
b)	What is an array? Explain how is an array represented in memory.	[5+5]		
8.	Write a program to read and display the information of all the students in the class. Then edit the details of the i <sup>th</sup> student and redisplay the entire information by using structures. [10]			
	OR			
9.	Write a program that uses a structure called date that has is passed to an is function to determine if the year is a leap year.	s LeapYear [10]		
10.	Explain the different types of File modes in C. OR	[10]		
11.	Write a program to compare two files to check whether they are identical or not.	[10]		

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