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## APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY THIRD SEMESTER B.TECH DEGREE EXAMINATION(S), MAY 2019

Course Code: EE207

		Course Code: LE20/	
		Course Name: COMPUTER PROGRAMMING	
Ma	X. Ma	Duration: PART A	3 Hours
1		Answer all questions, each carries 5 marks.  Which are the logical operators used in C language. Explain with example.	Marks (5)
2		With suitable example explain the syntax of switch -case statement in C language.	(5)
3		Write a C program to read an array of integers and search for the occurrence of a given	(5)
		value.	
4		What is the use of a static variable? Explain with example.	(5)
5		Define a structure and union with following as members - an integer variable, a	(5)
		character array having 20 characters, and a floating point variable. How many bytes are	
		allotted for each? Illustrate and explain.	
6		Write a C program to swap two variables using pointers.	(5)
7		Which are the different options for opening a file in C. Explain any four with example.	(5)
8		What are the advantages of Python as a programming language? Write a Python	(5)
		program to find the larger of two numbers.	
		PART B	
9	a)	Answer any two full questions, each carries 10 marks.  Write an algorithm and draw flow chart for finding the number of numbers divisible by	(10)
	a)	3 between 100 and 200.	(10)
10	a)		(5)
10	a)	Which are the basic data types in C language? How the memory allocation is done for each data type.	(5)
	b)	Write a C program to swap two numbers without using third variable	(5)
	U)	write a c program to swap two numbers without using time variable	(5)
11	a)	Write a C program to find the sum of the digits of a number.	(5)
	b)	Write a C program to print first 10 numbers of Fibonacci series.	(5)
		PART C	
12	a)	Answer any two full questions, each carries 10 marks. Give the syntax and example for two methods of reading a string.	(4)
12	b)	Write a C program for multiplication of two matrices.	(4)
13			(6)
13	a)	Write a C program to read a string and check whether it is palindrome or not.	(5)
	b)	What are the advantages of recursive function? Write a recursive function using C to	(5)
		find the factorial of a number.	