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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

THIRD SEMESTER B.TECH DEGREE EXAMINATION (R&S), DECEMBER 2019

Course Code: EE207

Course Name: COMPUTER PROGRAMMING

		Course Name: COMPUTER PROGRAMMING			
Max. Marks: 100 Duration: 3 Hours					
		PART A Answer all questions, each carries 5 marks.	Marks		
1		Write an algorithm for printing all odd numbers between 10 and 50.	(5)		
2		With the help of an example, explain the use of continue statement.	(5)		
3		Write a C program to find the median of n integers stored in an array	(5)		
4		Using an example, explain the concept of recursion.	(5)		
5		Using pointers, write a C program to arrange the letters of a word in alphabetic	(5)		
		order.			
6		What are unions? How are they different from structures?	(5)		
7		Write a C program to append the contents of one file to another file.	(5)		
8		Write a Python program to check if the given string is a palindrome or not.	(5)		
		PART B			
9	a)	Answer any two full questions, each carries 10 marks. What are pre-processor directives? Give examples.	(4)		
	b)	Draw a flow chart to determine sum of digits of an integer.	(6)		
10	a)	Differentiate between relational and logical operators in C	(4)		
	b)	Write a C program to find the age of a person in years, months and days if his date of birth is entered.	(6)		
11	a)	What is the purpose of go to statement? Give an example.	(4)		
	b)	Write a program to compute the sum of the series $1+x^2+x^3+x^4++x^n$	(6)		
PART C					
12	a)	Answer any two full questions, each carries 10 marks. What are arrays? How are they advantageous when compared with normal variables?	(4)		
	b)	Write a C program to find the product of two matrices.	(6)		
13	a)	Write a C program to count the number of words, vowels and consonants in a sentence entered by the user.	(5)		
	b)	Using a function write a C program to find the binary equivalent of an integer.	(5)		
14	a)	Describe the various storage classes in C.	(4)		
	b)	Write a C program to find the largest element of each row of an $m \times n$ matrix and place it in the 1 st column of the corresponding row. Use function.	(6)		

PART D

		Answer any two full questions, each carries 10 marks.	
15	a)	What is chain of pointers? Illustrate using an example.	(4
	b)	Define a structure Employee with employee number, name and experience as members. Write a C program to print a list of all employees (from amongst 100 employees) having more than 3 years of experience.	(6
16	a)		(5
	b)	A file contains students' records with roll number, name and mark. Write a program to read the contents of the file and display them.	(5
17	a)	Differentiate between fscanf() and scanf() functions	(2
	b)	Describe the fopen(), fclose(), fseek() and ftell() functions	(4
	c)	Write a Python program using function to search for an element in an array.	(4
