Reg	g No.	: Name:				
	TI	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY HIRD SEMESTER B.TECH DEGREE EXAMINATION(R&S), DECEMBER 2019				
		Course Code: EE207				
		Course Name: COMPUTER PROGRAMMING				
Max. Marks: 100 Duration: 3 Hours PART A						
1		Answer all questions, each carries 5 marks. Write an algorithm for printing all odd numbers between 10 and 50.	Marks (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 <i>n</i> 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 order.	(5)			
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 $1 + x^2 + x^3 + x^4 + \dots + x^n$	(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. Using a function write a C program to find the binary equivalent of an integer.	(5)			
14	b)		(5) (4)			
14	a) b)	Describe the various storage classes in C. Write a C program to find the largest element of each row of an $m \ge n$ matrix and place it in the 1 st column of the corresponding row. Use function.	(4) (6)			

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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)	Write a C program using pointers to find the difference of two matrices A and B.	(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)
