Reg No.:

Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY THIRD SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

Course Code: EE207

Course Name: COMPUTER PROGRAMMING

PART A

Max. Marks: 100

Duration: 3 Hours

		PART A Answer all questions, each carries 5 marks.	Marks
1		What is a compiler? How does it differ from an interpreter?	(5)
2		An electricity company charges people based on the number of units used.Input the number of units and calculate the bill amount and print using CprogramNo. of unitsRate/amountUp to 100 unitsRs. 1.80/-unitOtherwiseRs. 3.50/- extra per unit	(5)
3		Otherwise Rs. 3.50/- extra per unit Write a short note on array declaration and array initialization	(5)
4		Write a C program to find factorial of given number using recursive function.	(5)
5		Differentiate between structure and union with example.	(5)
6		Write a C program to swap the values of two variables using pointer.	(5)
7		Write a C program to read data from the keyboard, write it to a file, read the	(5)
		same data from the file and display on the screen.	
8		Write a Python program to check whether a number is prime or not	(5)
		PART B Answer any two full questions, each carries 10 marks.	
9	a)	Differentiate between $++$ i and i $++$ with the help of examples.	(4)
	b)	Explain different data types in C with examples.	(6)
10		Write a C program to print prime numbers up to N. Draw flow chart also.	(10)
11		To initiate a group activity, a teacher decided to group the whole class of	(10)

strength 60 into 6 groups according to the following rule Reminder (R) Group Ι 0 1 Π 2 III 3 IV 4 V 5 Vi

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Where R is the reminder when a student divides his/her Roll No. by 6. Write a C program to list group members of each group.

PART C

Answer any two full questions, each carries 10 marks.

12		Write a C program to multiply two matrices	(10)			
13	a)	What is meant by recursive function? Give example?	(5)			
	b)	Explain different string handling function in C with examples?	(5)			
14		What is storage classes in C and explain different storage classes in C with	(10)			
		example?				
PART D Answer any twofull questions, each carries 10 marks.						
15	a)	Write a C program to find factorial of a number using pointer	(6)			
	b)	What are the advantages of using pointers in C	(4)			
16	a)	How does a structure differ from an array in C?	(5)			
	b)	How is append mode different from write mode regarding files in C?	(5)			
17	a)	Write a Python program to read time in sec and convert that to hr:min:sec.	(5)			
	b)	Write a Python program to check whether the given year is leap year or not.	(5)			
