Reg No.:_____

Max. Marks: 100

Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Third Semester B. Tech Degree (S,FE) Examination December 2022 (2015)

Course Code: EE207

Course Name: COMPUTER PROGRAMMING

Duration: 3 Hours

11142		PART A	round					
			Marks					
204		Answer all questions, each carries5 marks.						
1		Write an algorithm to convert Indian Standard Time (IST) to GMT (IST = GMT +	(5)					
		5 hours and 30 Minutes)						
2		Write a 'C' program to accept three different numbers and find the median number	(5)					
		among them (The number which is neither the biggest, nor the smallest).						
3		Write a 'C' program to initialise a three-dimensional integer array and find the sum	(5)					
		of elements.						
4		Write a 'C' program to accept three numbers. The user shall be given a choice to	(5)					
		find their sum, average or the largest number. Use separate functions to do these						
		operations.						
5		Explain with the help of an example, how a variable can be accessed through a	(5)					
		chain of pointers in 'C'.						
6		Write a 'C' program to check if a number is prime or not using pointers.	(5)					
7		Explain any three control statements in Python.	(5)					
8		Write a Python program to find the factorial of a number.	(5)					
		PART B						
Answer any two full questions, each carries 10 marks.								
9	a)	Draw a flowchart to print all leap years between 1900 and 2021.	(5)					
	b)	Differentiate between compilers and assemblers.	(5)					
10	a)	Write any five types of operators in 'C'.	(5)					
	b)	Write a 'C' program to check whether a given number is palindrome.	(5)					
11	a)	Explain 'go-to' and 'label' in 'C' with the help of an example.	(5)					
	b)	Write a 'C' program to display all characters from A to Z using a 'do-while' loop.	(5)					

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PART C

Answer, any	two full	questions, each	h carries10 mar	ks
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Write a 'C' program to find the largest element in each row of a matrix. (5) Write a 'C' program to make a simple calculator using 'switch-case' statement. (5) 13 a) Write a 'C' program to concatenate two strings without using string handling (5) functions. b) Differentiate between 'pass-by-value' and 'pass-by-reference' in 'C' with the help (5) of examples. 14 a) Write a 'C' program to find the LCM of two numbers using recursive function (5) b) Differentiate between 'auto' and 'register' storage classes in 'C' with the help of (5) examples. PART D Answer any two full questions, each carries 10 marks. 15 Write a 'C' program using 'structures' to accept the name, register number and marks for three subjects of students in a class. Print the name and register number of students in the order of total marks scored. Write a 'C' program to find the largest element in an array, using pointers. (5) b) Write a 'C' program to open a file named 'numbers' and enter some numbers in it. (5) Now open another file called 'even' and transfer the even numbers in the file 'numbers' to it. Explain how random access in files can be done in 'C'. (5) Write a Python program to find the factors of a number. (5)
