E E7254

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Reg	No.:	Name:	-
		APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY THIRD SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2017	
		Course Code: EE207	
		Course Name: COMPUTER PROGRAMMING (EE)	
Max	. Ma	arks: 100 Duration: 3	Hours
1,100		PART A	1100110
		Answer all questions, each carries 5 marks.	Marks
1		Differentiate between machine language, assembly language and high level	(5)
2		languages? What is the difference between compiler and assembler?	(5)
2		Write a C program to find the LCM and HCF of any two numbers entered by	(5)
2		Write a C program to reverse a string.	(5)
3 4		What are the 4 basic storage classes in C?	(5)
		Differentiate between structure and union.	(5)
5 6		Write a C program to add two variables using pointers.	(5)
7		Explain how a new file is opened. What are the 3 modes while opening an	(5) (5)
/		existing file.	(3)
8		Write a Python program to reverse a given integer.	(5)
		PART B	
		Answer any two full questions, each carries 10 marks.	
9	a)	Explain any five kinds of operators in C.	(5)
	b)	Draw a flowchart to find the sum of digits of an integer.	(5)
10	a)	If more than one kind of operator is present in an expression, explain the order of precedence.	(5)
	b)	Write a C program to print the prime numbers between 101 and 500. Those numbers whose sum of digits is 5 need not be printed. Use 'while' loop in the program	(5)
11	a)	Explain 'switch' and 'go to' statements in C with the help of examples	(5)
	b)	Write a C program to print the following pattern using 'for' loop *	(5)
		* *	
		* * *	
		* * * *	
		* * * * *	
		PART C	
		Answer any two full questions, each carries 10 marks.	
12	a)	Explain how a 3 dimensional array is declared and initialised. How is a character	(5)
14	uj	array different from a string	
	b)	Write a C program to count the number of characters, words and lines in a text	(5)
13	a)	Write a C program to find the product of two matrices	(5)

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	b)	Explain the differences between pass by value and pass by reference with the	(5)
		help of examples.	
14	a)	Explain recursive function with the help of an example program.	(5)
	b)	Write a program to print all prime numbers between any two numbers entered by	(5)
		user, using functions.	
		PART D	
		Answer any two full questions, each carries 10 marks.	
15	a)	What is a pointer. How can you access a variable using chain of pointers?	(5)
	b)	Write a C program to sort an array using pointers.	(5)
16	a)	Write a C program to store the name and roll numbers of 10 students using	(5)
		structure. The name has to be then printed in the ascending order of roll numbers.	
	b)	Explain the basic control statements in Python.	(5)
17	a)	Write a C program to copy the contents of one file to another.	(5)
	b)	How can a random part in a file be accessed?	(5)

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