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Reg No.:	Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Third semester B.Tech degree examinations (S) September 2020

Course Code: EE207

		Course Code: EE207	
	Cou	rse Name: COMPUTER PROGRAMMING	
Max. M	Iarks: 100	Duration: 3	3 Hours
		PART A	
1		Answer all questions, each carries 5 marks.	Marks
1		fer from ++x? Explain with suitable example.	(5)
2	1 0	label statements with an example.	(5)
3	Write a C prografunction.	am to find length of a string without using string handling	(5)
4		and the second s	(5)
4	Discuss the auto and static storage class with example.		(5)
5	Explain following terms associated with pointer (i) Chain of pointers (ii) Pointer		
	expression (iii) Sc	ale factor.	
6	Write a C program	to find the largest element in array using pointer.	(5)
7	Distinguish between	een following functions (i) getc and getchar (ii)printf and	(5)
	fprintf (iii)feof and	d ferror	
8	Explain the follow	ving control statements in python. (i) for loop (ii) if elif else.	(5)
	Also write their sy	vntax.	
		PART B	
	Answe	er any two full questions, each carries 10 marks.	
9 a)	List the different of	operators in C. Discuss about conditional operator.	(5)
b)	Draw a flow chart	to check given number is palindrome or not.	(5)
10 a)	Railway Departme	ent Charges are given below:	(6)
	Distance(kms)	Rate/km	
	Upto 30	Rs. 5/-	
	31-50	Rs. 8.25/-	
	>50	Rs. 10/-	
	Senior citizens (a	ge>=60) are given a concession of 30% on the fare. Write a	
	program to print	the details of a passenger's name, age, distance traveled and	
	the ticket fare.		

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b) What is the difference between compiler and interpreter? (4) 11 Write a C program to find the solution of a quadratic equation (real and distinct, (10)equal or complex roots) using switch construct. Draw the flow chart also. PART C Answer any two full questions, each carries 10 marks. 12 a) Write a C program to read a matrix A and find the product $A * A^T$. (8) Discuss any two string handling function. b) (2) Write a C program to print first *n* Fibonacci numbers using recursive function. 13 (5) a) b) Explain the differences between pass by value and pass by reference with the (5) help of example. 14 Write a C program to read the array elements and to sort them in ascending (10)order. Use functions to read, sort, and print the array. PART D Answer any two full questions, each carries 10 marks. 15 A student database stores following information about students in a class: Roll (10)number, name, gender and CGPA. Write a program to prepare a rank list based on CGPA. Also prepare a list of students having CGPA less than 7. What is the output of the program: (5) 16 a) main() int $m[2] = \{100,200\};$ int a,b,c,*p=m; a=*p; b=*(p+1);c = (*p+1);printf("%d %d %d", a,b,c); b) Write a program to read integer numbers from one file and then save into (5) another file. 17 a) Write a python program to check the largest among the three numbers. (4) b) Explain user defined functions in python with syntax. Write your own function (6)

to print "Hello Python".