B B4B0004

Total Pages: 2

Reg No.:	Name:
----------	-------

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY FOURTH SEMESTER B.TECH DEGREE EXAMINATION, JULY 2017

Course Code: AE202 Course Name: COMPUTER PROGRAMMING (AE)

Max. Marks: 100 Duration: 3 Hours

PART A Answer any two full questions | Fach question carries 15 mark

		Answer any two juli questions. Each question carries 15 marks	
1	a)	What are algorithms. Write an algorithm to find the largest of 3 numbers	(4)
	b)	Explain different classes of datatypes in C.	(6)
	c)	Which of the following are valid identifiers and if not why?	(5)
		(i) roll no (ii) in-charge (iii) _yes (iv) int (v) m_to_2	
2	a)	Compare while and do-while with proper examples	(4)
	b)	Write a C program to find the number and sum of all integers greater than 100 and	(5)
		less than 200.	
	c)	With proper examples, explain (i) break (ii) continue (iii) goto	(6)
3	a)	Draw the flowchart of switch statement. Write a C program to print the	
		days of a week using switch.	
	b)	What will be the output of the following codes	(4)
		(i) main() (ii) main()	
		{	
		int $x=100$; int $x=100,y=200$;	
		printf("%d\n",10+ x++); printf("%d\n",(x>y)?x:y); }	
		printf ("%d\n",10+ ++x); }	
	c)	Write a C program to find the LCM of two numbers.	(4)
		PART B	
		Answer any two full questions. Each question carries 15 marks	
4	a)	Write a C program to implement bubble sort.	(5)
	b)	Which are the different string handling functions. Explain with examples	(4)
	c)	What is recursion. Write a program to find the factorial of a given number using	(6)
		recursion.	

B B4B0004

5	a)	Compare structure and union	(3)
	b)	Write a C program using pointers to compute the sum of all elements stored in an	(5)
		array.	
	c)	Write a C program to copy the content of one file to another file	(7)
6	a)	What are pointers? How can we access the address of a variable with pointers?	(5)
		Explain?	
	b)	Write a function to swap the values of two variables using pointers.	(5)
	c)	A file named DATA contains a series of integer numbers. Write a C program to	(5)
		read these numbers and then write all even numbers to another file called EVEN	
		PART C	
		Answer any two full questions. Each question carries 20 marks	
7	a)	Compare the use of different loops in python and C	(9)
	b)	Write a python program to calculate the area of a triangle.	(6)
	c)	Describe dictionary methods with example	(5)
8	a)	Write a python program to add 2 matrices using list	(10)
	b)	Explain how exceptions are handled in python. Illustrate with examples.	(10)
9	a)	Write a python program to find the largest of n numbers using function	(8)
	b)	What are lists. How can we access elements in a list? Compare it with the tuple	(5)
	c)	Write a python program to create a dictionary containing roll numbers and names	(7)
		of 5 students. Display the contents after arranging the students in ascending order	
