Reg No.: Name:		
Neg No	Pag Na ·	Namas
	NES INO	Name.

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY FOURTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), MAY 2019

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

Max. Marks: 100 Duration: 3 Hours

PART A Answer any two full questions. Each question carries 15 marks

1	a)	What is a compiler? How does it differ from an interpreter?	5
	b)	Write a C program to find the roots of a quadratic equation	5
	c)	Draw a flowchart to find the sum of digits of an integer.	5
2	a)	Explain switch and goto statements in C with suitable examples	5
	b)	Write a C program to enter a 3 digit number and print it in reverse.	6
	c)	Define 1). Loader 2). Linker.	4
3	a)	Differentiate between $++i$ and $i++$ with help of examples	5
	b)	Draw the flowchart of a switch statement. Write a C program to print the days of a	6
		week using switch statement.	
	c)	Compare while and do_ while loops with proper examples	4
		PART B	
		Answer any two full questions. Each question carries 15 marks	
4	a)	Write with suitable examples 1). Array declaration 2). Array initialization	5
	b)	Write a C program to sort an array using selection sort	6
	c)	What is user defined functions? Explain with an example.	4
5	a)	Explain dynamic memory allocation in C.	6
	b)	Write a C program to swap the values of two variables using pointer.	5
	c)	Write a C program to find the transpose of a matrix	4
6	a)	Compare structure and union	4
	b)	What are enumerated data types? Write a program to create enumerated data type	6
		for 12 months	

	c)	Write a C program to find the factorial of a number using recursion.	5
7	a)	PART C Answer any two full questions. Each question carries 20 marks Compare the use of different loops in Python with C?	8
	b)	Write a python program to read a number and display whether it is positive or	6
		negative or zero.	
	c)	What are the operators used in python explain with examples	6
8	a)	Explain, recursion in python with a suitable example	7
	b)	Explain Dictionary in python with example	7
	c)	Write a python program to check whether the given year is leap year or not.	6
9	a)	What is tuple in python? What is the difference between list and tuple?	6
	b)	Write a python program to check whether the given number is prime or not.	6
	c)	Explain how exceptions are handled in python. Illustrate with examples	8