Reg No.:____

Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

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

Course Code: EE207 Course Name: COMPUTER PROGRAMMING

Max. Marks: 100

Duration: 3 Hours

(6)

	PART A	
	Answer all questions, each carries 5 marks.	Marks
1	How does x ++ differ from ++ x ? Explain with suitable example.	(5)
2	Explain go to and label statements with an example.	(5)
3	Write a C program to find length of a string without using string handling	(5)
	function.	
4	Discuss the auto and static storage class with example.	(5)
5	Explain following terms associated with pointer (i) Chain of pointers (ii) Pointer	(5)
	expression (iii) Scale factor.	
6	Write a C program to find the largest element in array using pointer.	(5)
7	Distinguish between following functions (i) getc and getchar (ii)printf and	(5)
	fprintf (iii)feof and ferror	
8	Explain the following control statements in python. (i) for loop (ii) if elif else.	(5)
	Also write their syntax.	

PART B

Answer any two full questions, each carries 10 marks.

- 9 a) List the different 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 Department Charges are given below:

Distance(kms)	Rate/km
Upto 30	Rs. 5/-
31-50	Rs. 8.25/-
>50	Rs. 10/-

Senior citizens (age>=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)
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)
 - b) Discuss any two string handling function.
- 13 a) Write a C program to print first n Fibonacci numbers using recursive function. (5)
 - b) Explain the differences between pass by value and pass by reference with the (5) help of example.

(2)

(5)

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.
- 16 a) What is the output of the program:

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".
