Reg No.:	Name:
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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIFTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), DECEMBER 2019

Course Code: CH307 Course Name: COMPUTER PROGRAMMING IN C++

Max. Marks: 100 Duration: 3 Hours

		PART A Answer any two full questions, each carries 15 marks.	Marks
1	a)	"All variables must be declared before they are used". Justify your answer with an example.	(5)
	b)	With suitable examples, state the various features of Object Oriented Programming.	(10)
2	a)	Explain the rules of operator precedence.	(5)
	b)	Write a program to find the minimum and maximum among three given integers.	(10)
3	a)	Calculate the factorial of a number using 'for' loop. [eg. $4! = 4*3*2*1=24$]	(8)
	b)	Discuss the different types of arithmetic operators in C++?	(7)
		PART B Answer any two full questions, each carries 15 marks.	
			
4	a)	Write the syntax of an Inline function. List out their advantages.	(5)
	b)	Write a program to count the number of words in a string.	(10)
5	a)	Give the use of scope resolution operator. Illustrate with example the use of public inheritance.	(5)
	b)	Differentiate between Constructor and Destructor functions giving suitable example using a class in C++.	(10)
6	a)	Differentiate between members, which are present within the private visibility mode with those which are present within the public visibility modes.	(5)
	b)	Write a program to overload binary operator == (equality) to compare two string	(10)
		objects.	

PART C

Answer any two full questions, each carries 20 marks.

- 7 a) Write a program to concatenate two given strings into one string using pointers. (10)
 - b) Explain with an example how pointers are pointed to the objects of a derived (10) class.
- 8 a) Describe virtual functions? Describe a circumstance in which the use of virtual (10) functions would be appropriate.

b)	With example illustrate working	g of pointers to pointers.	(10)
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9 a) Write a C++ program to write a string input from the user into a newly created (12) file and read the contents of the file.

b) Explain command line arguments with an example. (8)
