Dan	Ma	
Kon	TAG"	

Total Pages: 03

## BT-3/D-19

33134

# OBJECT ORIENTED PROGRAMMING PC-CS-203-A

Time: Three Hours]

[Maximum Marks: 75

Note: All questions in Part A and B are compulsory. Attempt any four questions from Part C, selecting at least one question from each Unit.

### Part A

- 1. (a) Explain controlling access function and utility function with example.
  - (b) What is the use of new operator?
  - (c) What does polymorphism mean in C++ language?
  - (d) What is throwing an exception?
  - (e) Under what circumstances overloading using friend function becomes necessary.5×3=15

#### Part B

- What is the object oriented programming? How is it different from procedure oriented programming? Explain.
- Why is the "Assignment" operator function not inherited?Explain.

(4-09/9) L-33134

P.T.O.

5	5.	Create a template for bubble sort function.		
			Part C	
			Unit I	
	5.	(a)	What is the application of the scope resolution operator	
			:: in C++?	5
		(b)	Which operator is used to access a class member wit	h
		8	respect to pointer?	5
Tè	7.	(a)	What is data abstraction? How is it implemented i	n
SP.		d		5
	The same of the sa	(b)	What is the difference between early binding and lat	
	1		binding in C++?	5
			Unit II	
	8.	What	t is inheritance? How does inheritance influence the size	
		and i	functionality of derived class objects?	0
	9.	(a)	Under what conditions does the dynamic memor	гy
			allocation become mandatory.	5
		(b)	What are destructors? When they are called and wh	at
			is their utility?	5
	L-3	3134	2	

4. Differentiate between structure and class.

## Unit III

- 10. When do we make a virtual function "pure"? What are the implications of making a function a pure virutual function?Explain.
- 11. Overload the "addition" operator for the string so that it addstwo strings and return the result.10

