27-Nov-18 1T00141 - M.C.A. (Sem. I)(Choice Based) / 56001 - Object Oriented Programming. 58485

[3 Hours]	[Total marks: 80
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N.B. (1) Question 1 is compulsory.

(2) Attempt an	v three from	remaining	five o	questions
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1.	(a)	What is multipath inheritance? What is the ambiguity in multipath inheritance? How it can be resolved?	10
	(b)	What are Constructor and Destructor? Explain use of copy constructor with an example.	10
2.	(a)	What is Runtime Polymorphism? Explain use of Virtual functions to achieve it.	10
	(b)	Write a program to overload insertion and extraction operator.	10
3.	(a)	Explain use of 1) Constant Data Members 2) Constant Functions 3) Explicit 4) Mutable	10
	(b)	Explain the concept of Function Templates. Write a function template to find maximum of two elements. Exercise the function template on various data types such as int, float,double,etc.	10
4.	(a)	Explain type conversion? Write a program to convert Doller into Rupees using object to object conversion.	10
	(b)	Explain exception handling. Write a program to throw user defined function 'InsufficientFundsException' for Bank. Define a class Bank with following functions:	10
		i) Deposit()ii) Withdraw(), minimum balance Rs. 500/- else throws InsufficientFundsExceptioniii)Display()	
5.	(a)	Which are different file opening methods? Write a program to copy contents of FILE1 followed by FILE2 in FILE3.	10
8	(b)	Differentiate between iv) Procedure oriented language and object oriented language v) Pass by value and pass by reference	10
6.		Write short notes on any FOUR.	20
		 a) Null and void pointer b) Inline Function c) New and delete operator d) friend function e) Virtual Destructor 	