LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – **COMPUTER SCIENCE**

THIRD SEMESTER – NOVEMBER 2017

16UCS3MC02 – OBJECT ORIENTED PROGRAMMING USING C

Date: 07-11-2017 Time: 09:00-12:00	Dept. No.	Max. : 100 Marks
Answer All the Questions	Part – A	(10 x 2 = 20 Marks)
1. What are the features of OOP?		
2. What is in line function? Give example.		
3. Distinguish between overloading and overriding.		
4. Define Friend Function and Frie	nd Class.	
5. Describe the importance of destruct	or.	
6. How the objects are initialized dynamically?		
7. What is a virtual function?		
8. Define Derived class.		
9. What is a template?		
10. What are constructs used in Ex	ceptions handling?	
Answer All the Questions	Part – B	(5 x 8 = 40 Marks)
11. a) Explain call-by-value and call-by-reference with an example. (OR)		
 b) Explain Data Abstraction an a) Define a class to represent a 		ata members and member
functions. Data members: Name of the depositor, Account number, Type of account, Balance amount		
Member functions: To assign	n initial value. To deposit an amount, T	o withdraw an amount after
checking the balance, To dis	play the name and the balance amount.	Write a C++ code to implement
the above.		-
	(OR)	
12. b) Explain the use of friend fun	ctions with example	
13. a) Explain in detail about Param	eterized constructors and destructors wi	th example.
(OR) 13. b) Explain unary operator overloading and binary operator overloading with example.		
14. a) What is the difference between a virtual function and a pure virtual function? Give example of each.		
(OR)		
14.b) Define Inheritance. What are the various types of inheritance?		
15.a) Briefly explain about the syntax of a class template with suitable program. (OR)		
	()	

15. b) Discuss I/O manipulation and random access.

PART – C

Answer Any TWO Questions

16. a) Discuss in detail about various control structures in C++ with suitable example.

b) Explain static member functions with a sample code.

17. a)Write a C++ code to implement dynamic and copy constructor.

b) Write a C++ program for implementing hybrid Inheritance.

18. a) Explain in detail about Exception Handling mechanism in C++ with suitable example.

b) Discuss in detail about classes for file stream operations
