B.Sc.IT: Semester – III
[Object Oriented Programming With C++]
Question Paper (June – 2016) [Revised Course]

- Kamal T.

Time: 3 Hours **Total Marks: 100**

N.B.: (1) All Questions are Compulsory.
(2) Attempt any three sub-questions out of 4 from Q.2 to Q.7.
(3) Draw neat labelled diagram whenever necessary.

Q.1 Attempt The Following Question: (10 Marks)

(A)	Design the class Customer containing get-custInfo( ) and display-custInfo( ) as two of its methods which will be used for reading and displaying the customer information respectively. Where get-custInfo( ) will be private method.	**(10)**

Q.2 Attempt Any Three From The Following: (15 Marks)

(A)	List a few areas of application of OOP technology.	**(5)**
(B)	Differentiate between procedural & object oriented approach.	**(5)**
(C)	Define the terms inheritance and polymorphism.	**(5)**
(D)	What is structure and class? Explain with example.	**(5)**

Q.3 Attempt Any Three From The Following: (15 Marks)

(A)	How the member function can define inside class and outside the class.	**(5)**
(B)	Explain what is a copy constructor with suitable program?	**(5)**
(C)	What are the different types of constructor? Explain any two.	**(5)**
(D)	Explain what is destructor with example?	**(5)**

Q.4 Attempt Any Three From The Following: (15 Marks)

(A)	What is operator overloading? Write any 4 rules to overload operator.	**(5)**
(B)	Explain what is friend class & friend function.	**(5)**
(C)	Explain the different types of type conversions.	**(5)**
(D)	Write a program to overload the increment and decrement operator.	**(5)**

Q.5 Attempt Any Three From The Following: (15 Marks)

(A)	Explain the different types of File mode.	**(5)**
(B)	Explain the term Virtual function and write the rules for it.	**(5)**
(C)	Explain the different forms of inheritance.	**(5)**
(D)	What is an abstract class? Explain.	**(5)**

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Q.6	Attempt Any Three From The Following: (15 Marks)	
(A)	List the Assignment and Append operators of string.	(5)
(B)	Write a short note on C++ Exception Handling Mechanism.	(5)
(C)	When do we use multiple catch blocks? Explain.	(5)
(D)	Define the terms:- (i) Input Stream (ii) Output Stream	(5)

Q.7	Attempt Any Three From The Following: (15 Marks)	
(A)	What is Class template? How it is define and call?	(5)
(B)	Write a short note on Function Overloading.	(5)
(C)	Write a short note on Iterator Classes.	(5)
(D)	Explain the terms Vector and Stack.	(5)

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