

B.Sc.IT: Semester – III
[Object Oriented Programming With C++]
Question Paper (April – 2015) [Revised Course]

- Kamal T.

Time: 3 Hours

Total Marks: 100

- N.B.: (1) Questions No. 1 is Compulsory.
(2) Every Question has an option.
(3) All questions carry equal marks.

Q.1 Attempt Any Two Question: (10 Marks)

- (A) Write a C++ Program to multiply two complex numbers using Binary Operator Overloading. (5)
(B) Explain Polymorphism with example. (5)

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

- (A) What is Object and Class? Explain with example. (5)
(B) Differentiate between Procedural & Object Oriented Approach. (5)
(C) Define the term Data Abstraction and Data Encapsulation. (5)
(D) Differentiate between Structure & class. (5)

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

- (A) Explain Static Data Member and Static Member Function. (5)
(B) Explain what is a Destructor with suitable program. (5)
(C) Explain dynamic constructor with example. (5)
(D) How the member function can define inside class and outside the class. (5)

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

- (A) What is Operator Overloading? Write the rules to Overload Operator. (5)
(B) Explain Friend Class with suitable example. (5)
(C) Explain the different types of type conversions. (5)
(D) Write a C++ Program for overloading the Unary Operator ++. (5)

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

- (A) Explain the different types of File Mode. (5)
(B) What is Pure Virtual Member Function? Explain. (5)
(C) Design a class for a single level inheritance using public and private type derivation. (5)
(D) What is an Abstract Class? Explain. (5)

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Lingjun Ying



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