

GOA VIDYAPRASARAK MANDAL'S
Gopal Govind Poy Raiturcar College of Commerce & Economics
Ponda-Goa

BCA (SEMESTER-III) EXAMINATION, OCTOBER 2012
OBJECT ORIENTED CONCEPTS

Time: 2 Hours

Maximum Marks: 50

- Q I. A) Define the following terms (5x1=5)
1. Data Abstraction
 2. Classes.
 3. Polymorphism.
 4. Multiple Inheritance
 5. Encapsulation.
- B) State which of the following statements are True or False. Give reasons (5x1=5)
1. Constructors can return value.
 2. Friend function can access members of a class directly.
 3. Constructors can take default arguments.
 4. Destructors take input parameters.
 5. Object oriented programming permits reusability of the existing code.
- Q.II) Answer the following:
1. Explain inline function with an example. (2)
 2. Write a program that creates a file called example.txt and inserts a sentence into it (3)
 3. Explain Benefits and limitations of object Oriented Programming. (5)
- Q.III) Answer the following:
1. What are the differences between default and parameterized constructors? (2)
 2. Explain function overloading with an example. (3)
 3. Write a program to overload arithmetic + operator for complex expressions. (5)
- Q.IV) Answer the following:
1. Explain Pure virtual Function. (2)
 2. Write a short note on Aggregation. (3)
 3. Consider an example of declaring the examination result. Design the three classes : Student, Exam and Result. The student (admno, name). Create the class exam by inheriting the Student class. Exam class consists of data member like the marks scored in 4 subjects. Derive the result from the Exam class and its has its own data members such as total_marks. Write an interactive C++ program to model this relationship. (5)
- Q.V) Answer the following:
1. What are the three parts of an iostream system. (2)
 2. What are Exceptions? Illustrate with an example. (3)
 3. What is a function template? Explain the syntax of a function template with suitable examples. (5)

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