

**Goa Vidyaprasarak Mandal's
Gopal Govind Poy Raiturcar College of Commerce & Economics
Ponda-Goa**

**BCA (SEMESTER-III) EXAMINATION, OCTOBER 2013
OBJECT ORIENTED CONCEPTS**

Time: 2 Hours

Maximum Marks: 50

Q I. A) Define the following terms : (5*1=5)

1. Function Overloading.
2. Copy constructor.
3. Data Abstraction
4. Dynamic Binding.
5. Data Hiding.

B) State which of the following statements are True or False. Give reasons.(5*1=5)

1. Constructors like other member function, can be declared anywhere in the class.
2. Operator functions never return a value.
3. Destructors never take any argument.
4. Inheritance aids data hiding.
5. A function designed as private is accessible only to member functions of that class.

Q.II) Answer the following:

1. What is object-oriented programming? How is it different from the procedure oriented programming? (2)
2. Briefly explain a few areas of application of OOP technology. (3)
3. Write a program to overload a binary operator. (5)

Q.III) Answer the following:

1. List some of the special properties of the constructor functions? (2)
2. Write a short note Abstract classes. (3)
3. Explain Hybrid inheritance with an example. (5)

Q.IV) Answer the following:

1. Explain pure virtual Function. (2)
2. Briefly explain class template. (3)
3. Write a program with the following: (5)
 - a) A function to read two double type numbers from keyboard.
 - b) A function to calculate the division of these two numbers.
 - c) A try block to throw an exception when a wrong type of data is keyed in.

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- d) A try block to detect and throw an exception if the condition "divide-by-zero" occurs.
- e) Appropriate catch block to handle the exceptions thrown.

Q.V) Answer the following:

- 1. What is the meaning of a) ios::in and b) ios::trunk File mode parameters. (2)
- 2. Explain seekg(),seekp() and tellg()functions for Manipulation of File Pointer (3)
- 3. What is a function template? Explain the syntax of a function template with suitable examples. (5)

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