

Goa Vidyaprasarak Mandal's
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND
ECONOMICS, PONDA-GOA
B.C.A. (SEMESTER-III) SUPPLEMENTARY EXAMINATION
MAY/JUNE 2017
OBJECT ORIENTED CONCEPTS

Duration: 2 Hours

Marks: 50

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

1. Object and Class
2. Default constructor and parameterized constructor
3. Object Oriented Programming and Procedure Oriented Programming.
4. Single Inheritance and Multiple Inheritance.
5. InputStream class and Reader class

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

1. Virtual Base Class
2. Method Overriding
3. Abstraction
4. Interface
5. Multilevel Inheritance

Q.II) Answer the following:

1. What do you think are the major issues facing the software industry today? (2)
2. What are the unique advantages of an object-oriented programming paradigm? (3)
3. Write a program that creates a file called input.txt and inserts a sentence into it. (5)

Q.III) Answer the following:

1. Explain Aggregation? Explain with an example. (2)
2. Describe Character and Byte Stream Classes in Java. (3)
3. Explain with an example Hybrid inheritance in Java. (5)

Q.IV) Answer the following:

1. Explain throw and throws keyword in java with examples. (2)
2. List special properties of a constructor? Explain with an example Constructor Overloading. (3)
3. What is an interface? Explain with examples of java code for implementing interface. (5)

Q.V) Answer the following:

1. Explain the methods of creation of file. Write a program that will read byte in a program. (2)
2. What is a class? How does it accomplish data hiding? (3)
3. What is an exception? List some of common types of exceptions that might occur in java. Write a java program illustrating exception handling mechanism in java using try, catch and finally block. (5)

-----Best of Luck-----