

**Goa VidyaprasarakMandal's**  
**GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE**  
**AND ECONOMICS, PONDA - GOA**  
**B.C.A. (SEMESTER- III) EXAMINATION, OCTOBER 2017**  
**OBJECT ORIENTED CONCEPTS**

Duration: 2 hrs

Marks: 50

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Q I) A. Distinguish between the following terms: (02\*03=06)

1. Object Oriented Programming and Procedure Oriented Programming
2. Default Constructor and Parameterized Constructor

B. Define the following terms: (04\*01=04)

1. Object
2. Encapsulation
3. Message Passing
4. Data Hiding

QII) Answer the following:

1. What is the major difference between an Interface and a class? (2)
2. What are the benefits of Object Oriented Programming? (3)
3. Explain Multilevel Inheritance in Java with an example. (5)

QIII) Answer the following:

1. What is the difference between Public access and Private access? (2)
2. Explain Polymorphism in detail. (3)
3. Explain Operator overloading with a Java code example. (5)

QIV) Answer the following:

1. Write a short note on Aggregation in java. (2)
2. State and explain the types of error which occurs in Java programs. (3)
3. What are Byte Stream classes? Explain the two types of Byte Stream Classes. (5)

QV) Answer the following:

1. Explain Method Overloading in Java. (2)
2. With the help of a diagram briefly explain the Applet Life Cycle. (3)
3. What are Exceptions in Java? Explain with an example for Exception Handling. (5)

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