

**Goa Vidyaprasarak Mandal's**  
**GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND**  
**ECONOMICS, PONDA - GOA**  
**B.C.A. (SEMESTER - III) EXAMINATION, OCTOBER 2019**  
**OBJECT ORIENTED CONCEPTS**

**Duration: 2 hrs**

**Marks: 50**

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

1. Public Access and Private Access
2. Class and Interface

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

1. Data Hiding
2. Identifiers
3. Encapsulation
4. Keywords

QII) Answer the following:

1. Write a short note on Destructors in Java (2)
2. What are Java Tokens? State different Types of Java Tokens (3)
3. What is Operator Overloading? Explain it with a Java code example. (5)

QIII) Answer the following:

1. What is Hybrid Inheritance? (2)
2. Explain in detail with example Static Variables and Methods. (3)
3. What is Multiple Inheritance? Explain with the help of a Java code (5)

QIV) Answer the following:

1. Write a short note on Method Overriding. (2)
2. What are Exceptions? State and Explain different types of Exception. (3)
3. Explain Exception Handling in Java with an Example (5)

QV) Answer the following:

1. Write a short note on Character Stream Class (2)
2. What are Byte stream classes? State and Explain types of Byte Stream Classes. (3)
3. Write a Java Program to write bytes to a file (5)

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