



**SB-1463**

**S. Y. B. C. A. (Sem IV) Examination**

**March / April – 2011**

**Java Programming Language : Paper - 403**

*(New Course)*

Time : Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दशांशिक निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.		Seat No. :	
Name of the Examination :		<input type="text"/>	
Name of the Subject :		<input type="text"/>	
Subject Code No. : <input type="text" value="1"/> <input type="text" value="4"/> <input type="text" value="6"/> <input type="text" value="3"/>		Section No. (1, 2,.....) : <input type="text" value="Nil"/>	
		Student's Signature	

(2) All questions are indicated with related marks at right side.

1 Answer following : 12

- What is difference between static and non-static variables?
- What is difference between public, private and protected?
- How JVM works ?
- Which access specifiers are available in Java ?
- What is difference between class methods and Instance Methods ?
- Is it possible to create object for an Interface ? If yes then How ?

2 (A) Explain Java Programming Environment. Also discuss 08 features of Java Programming Language.

**OR**

- Discuss features of Java in compare to C++ Programming Language.
- Discuss Java Primitive data types and their wrapper class.

**OR**

- (B) Discuss operators, identifiers and comments structure in Java. **05**
- (C) Explain branching statements in Java. **03**
- 3** (A) Explain the concepts of Exceptions handling in Java. **08**
- OR**
- (A) Explain Inheritance concepts in Java.
- (B) Explain the structure of Java Programs.
- OR**
- (B) How to set priorities of Threads ? What is difference between synchronous and asynchronous thread ? **05**
- (C) What is interface ? **03**
- 4** (A) What is the concept of Thread and multi Thread in Java ? Discuss Life cycle of Threads. **08**
- OR**
- (A) What is package ? How to create user defined package in Java ?
- (B) Discuss String and StringBuffer Classes and explain their important methods. **05**
- OR**
- (B) Explain Garbage collection concepts in Java.
- (C) What is Abstract class ? **03**
- 5** Answer following : (Any Two) **10**
- (a) Life cycle of Applet.
- (b) Class Hierarchy of Applet.
- (c) Difference between Abstract class and Interface.
- (d) Array concepts in Java.