



**UA-3748**  
**Second Year B. C. A. (Sem. IV) Examination**  
**March/April – 2012**  
**Paper - 403 : Java Programming Language**

Time : Hours]

[Total Marks : 70

**Instructions :**

(1)

<p>नीचे दशांकेषु निशानीवाणी विगतो उत्तरवही पर अवश्य खजवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : <b>Second Year B. C. A. (Sem. 4)</b></p> <p>Name of the Subject : <b>Paper - 403 : Java Programming Language</b></p> <p>Subject Code No. : <b>3</b> <b>7</b> <b>4</b> <b>8</b> Section No. (1, 2,.....) : <b>NIL</b></p>	<p>Seat No. : [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]</p> <p style="text-align: center; border: 1px solid black; border-radius: 15px; padding: 10px;">Student's Signature</p>
---	---

(2) Marks are indicated at the right side of each questions.

- 1 Answer following : (any five) 15
- (a) What is difference between equals( ) and == ?
  - (b) Explain super( ) keyword with example.
  - (c) Explain life cycle of Thread( ).
  - (d) What is native code ?
  - (e) What is virtual Machine ?
  - (f) Explain keyword 'Abstract'.
  - (g) What is difference between paint( ) and repaint( ) ?
- 2 (a) Describe Java architecture. How Java is platform independent Language ? 8
- OR**
- (a) Discuss Java class structure. Explain concept of inheritance in Java. 8
  - (b) Discuss control structures in Java. 5
- OR**
- (b) Explain Java datatypes. Provide appropriate examples. 5
  - (c) What is difference between this and super keywords ? 3

3 (a) What is Exception ? Discuss Exception handling in Java. 8

OR

(a) Discuss concept of Threads in Java. Explain Thread priorities. 8

(b) Explain concept of packages in Java. 5

OR

(b) What is interface ? Explain concept and benefits of interface. 5

(c) Discuss polymorphism concept in Java. 3

4 (a) What is difference between Java Applications and Applet ? 8

OR

(a) Discuss Applet life cycle. How Java Applets executes ? 8

(b) What is difference between final, finally and finalize ? 5

OR

(b) Explain flow controls of Java. 5

(c) What is Garbage collection ? 3

5 (a) What is difference between string() and string Buffer() class ? 4

OR

(a) Discuss any five data class functions. 4

(b) Explain following methods with example : 3

(i) substring( )

(ii) indexOf( )

(iii) insert( )

(iv) delete( ).