



SC-4336

M. C. A. (Sem. IV) Examination

April / May - 2011

Paper - 404 : Java Programming  
(Old Syllabus)

Time : 3 Hours]

[Total Marks :70

**Instructions :**

(1)

नीचे दशांशवैक निशानीवाणी विगतो उतरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination : M. C. A. (Sem. 4)	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Name of the Subject : Paper - 404 : Java Programming (Old)	<input type="text"/> Student's Signature
Subject Code No. : <input type="text" value="4"/> <input type="text" value="3"/> <input type="text" value="3"/> <input type="text" value="6"/> Section No. (1, 2,.....): <input type="text" value="Nil"/>	

1 Attempt any two : 14

- Explain how Java is platform independent.
- Write a note on access modifiers.
- With examples explain different types of inheritance in Java.

2 Attempt any two : 14

- Explain the usability of adapter classes. Also list out the adapter classes.
- Explain package and its implementation in Java.
- Write a detailed note on OutputStream. Write interface and its subclasses.

3 (a) Explain any five constructors of String class. 7

OR

- Describe life cycle of a thread. Also explain thread synchronization. 7
- Write a note on various collection classes in Java. 7

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[Contd...

- 4 Attempt any two : 14
- (a) Write an applet that finds roots of a quadratic equation. All conditions should be checked and appropriate message should be displayed wherever necessary.
  - (b) Write a program to read a text file and remove all even lines.
  - (c) Write a note on Java security.
- 5 (a) Giving proper example show how parameter of primitive and non- primitive types if passed to methods. 7
- (b) Write a note on exception handling in Java. 7
- OR**
- (b) Discus garbage collection and finalization with necessary Java API. 7
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