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NC-1463

Second Year B. C. A. (Sem. IV) Examination
September / October – 2011

Java Programming Language : Paper - 403
(New)

Time : Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशक निशानीवाली विगतो उत्तरपत्री पर अवश्य लिखवी.
Fill up strictly the details of signs on your answer book.

Name of the Examination :
S. Y. B. C. A. (SEM. 4)

Name of the Subject :
JAVA PROGRAMING LANGUAGE : PAPER - 403

Subject Code No. : 1 4 6 3 Section No. (1, 2,) Nil

Seat No. : [] [] [] [] [] [] [] [] [] []

Student's Signature

(2) Marks are indicated to the right side of each question.

- 1 Answer following : 12
- (a) How this () and super () are used with constructors ?
 - (b) What is difference between Java constructors and methods ?
 - (c) If a method is declared as abstract, can other nonabstract methods access it? Explain how.
 - (d) Can we create an object for interface ? How ?
- 2 (a) Explain the structure of JVM. 8
Describe how Java program execute ?
- OR
- (a) Discuss Java primitive data types. 8
Also explain Java control structures.
 - (b) What is difference between abstract class and interfaces ? 5
- OR
- (b) Explain concepts of overloading methods in Java. 5
 - (c) How Java inheritance differ from C++ inheritance ? 3

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3 (a) Explain thread life cycle. How Thread priorities are set ? 8

OR

(a) Explain Java exception handling. 8
How to create user defined exceptions ?

(b) Discuss operators, identifiers and comments structure in Java. 5

OR

(b) Discuss Garbage collection in Java. 5

(c) What is wrapper class ? 3

4 (a) What is an Applet ? How Applet work ? Discuss various self executing methods available in Applet. 8

OR

(a) What is interface ? How interfaces are created and implemented ? Also discuss difference between interfaces and abstract class. 8

(b) What is package ? How to create user defined package ? 5

OR

(b) What is difference between Java and C++ code execution ? 5

(c) Discuss string and string buffer class's important methods. 3

5 Answer following : (any two) 10

(a) Java Programming Environment

(b) Inheritance and Polymorphism in Java

(c) Difference between Abstraction and Encapsulation

(d) Exception, Runtime Exception and Errors handling in Java.
