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M.C.A. IInd Semester(Main/Back) New Scheme Examination - 2009
MCA
Programming in Java
2C7112

Time : 3 Hours   **Maximum Marks : 80**
                                                       Min. Passing Marks : 32

Instructions to Candidates:

*Attempt **All** Questions. Marks of **questions** are indicated against **each** question.*

1. a) What are unique features of an object - oriented programming paradigm?(4)

    b) Explain, "Write once and run anywhere" nature of Java.   (4)

    c) How is Java strongly associated with the Internet?   (4)

    d) How is Java more secure than other languages?   (4)

2. a) What is the need of looping? Explain Entry Control and Exit Control loop in Java.   (5)

    b) What is synchronization? When do we use it?   (5)

    c) Write a Java program to create a thread that displays odd numbers starting from 1 to 100.   (6)

OR

    a) What is an interface? Differentiate between Abstract class and an Interface.(5)

    b) What is synchronization? When do we use it?   (5)

    c) What is an applet? How do applets differ from application programs? (6)

3. a) What is an Exception? Is it essential to catch all types of exceptions? Explain.   (5)

    b) What is Runnable interface? Explain with a suitable example? (5)

    c) What is AWT? What are its components?   (6)

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4. a) What is a Java Bean? Explain its advantages also explain constrained properties and persistance.   (8)

    b) What is a servlet? Describe its life cycle. How are HTTP requests & reponses handled?   (8)

5. a) What is JDBC? What are its drivers? Explain the procedure for setting up a connection to database using JDBC.   (8)

    b) Explain the two tier and three tier client server model.   (8)

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