7/20/12 ALCCS

ALCCS

Code: CT21		Subject: OOPS USING JAVA
Time: 3 Hours	SEPTEMBED 2010	Max. Marks: 100

NOTE:

- Question 1 is compulsory and carries 28 marks. Answer any FOUR questions from the rest. Marks are indicated against each question.
- Parts of a question should be answered at the same place.
- **Q.1** a. Write a note on Java class loaders.
 - b. Explain life cycle of a thread with help of a diagram. How do the wait and notifyAll/notify methods enable cooperation between threads?
 - c. Write a small java program containing user defined exceptions.
 - d. Differentiate final, finally and finalize with reference to java.
 - e. Explain the drawPolygon () method of Polygon class with the help of an example.
 - f. How java swing controls differs from java AWT controls.
 - g. Discuss MouseListenener interface and list out its functions. (7×4)
- Q.2 a. Explain the benefits and applications of OOP in detail.
 - b. How does Java handle strings? Describe the constructors of String and StringBuffer classes. (9+9)
- Q.3 a. What are the advantages of using interfaces in Java? How are they different from Abstract Classes?
 - b. Explain Method overloading & Method overriding with suitable example. Can you overload operators in java? (9+9)
- **Q.4** a. How do we design a package? What are the steps to add classes and interfaces in a package? Give suitable example.
 - b. Explain Multithreading. How java implements its thread Model? (9+9)
- **Q.5** a. Discuss the Java error handling mechanism? What is the difference between 'unchecked exceptions' and 'checked exceptions'? What is the implication of catching all the exceptions with the type "*Exception*"?
 - b. Write a Java program to copy one file to another file with the help of byte stream classes. (9+9)
- **Q.6** a. Describe different types of Layout Manager (Flow Layout, Grid Layout, and Border Layout) in Java using suitable examples.
 - b. How java implements UDP protocol? Discuss various classes available in Java to support UDP protocol. (9+9)
- **Q.7** a. List Three UI components of swings, their classes and constructors.

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b. Explain the Applet life cycle. Also discuss Applet Tag used in HTML and attributes used in Applet Tag giving suitable example.