

MCA (Revised)**Term-End Examination****December, 2011****MCS-024 : OBJECT ORIENTED
TECHNOLOGIES AND JAVA
PROGRAMMING***Time : 3 hours**Maximum Marks : 100*

- Note :**
- (i) Q. No. 1 is *compulsory*.
 - (ii) Attempt *any 3* question from the rest.
 - (iii) Attempt *all* the parts of a question together.

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1. (a) Compare and contrast object-based programming language and object-oriented programming language. 6
 - (b) What is inheritance ? Differentiate between multilevel and multiple inheritance using an example. 6
 - (c) Write a program in Java to calculate area and circumference of a circle. Show the use of 'final' keyword in your program. 6
 - (d) Write a program in Java for creating thread by inheriting the thread class. 4
 - (e) What is an interface in Java ? Explain how an interface is created with the help of an example ? 4
 - (f) Write a program to find the length of a given string. Replace all the occurrences of a given character by a substitute character and print the resultant string. 8

- (g) Write a program to set the font of given string in text area as font name as "Arial", font size as 10 and font style as FONT. BOLD and FONT. ITALIC. 6
2. (a) Explain the term Datagram. Describe the Datagram packet constructors along with their specific usage. Write a program for sending UDP Datagram's ? 10
- (b) What is JDBC ? Explain how JDBC connectivity is established ? Give an example of preparing and executing SQL statements using JDBC. 10
3. (a) What is Java beans ? Explain its features. Also, illustrate the difference between a Java bean and an instance of a normal Java class. 10
- (b) What is File class ? Explain its use with an example program. 10
4. (a) Discuss the Input stream and output stream hierarchy. Write a program to read the binary file. 10
- (b) Write a brief description of Applet lifecycle. Discuss four low level events and their respective event listeners. 10

5. (a) Discuss servlet life cycle. Write a servlet program to generate a dynamic HTML page for welcome of the user who logged in. 10
- (b) Discuss any four layouts. Also explain the interfaces used for the implementation of these layouts. 10
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