

03337

MCA (Revised)

Term-End Examination

June, 2012

**MCS-024 : OBJECT ORIENTED
TECHNOLOGIES AND JAVA
PROGRAMMING**

Time : 3 hours

Maximum Marks : 100

Note : *Question 1 is compulsory. Attempt any three from the rest.*

1. (a) What is multithreading ? Explain how does it help Java in its performance ? 5
- (b) Differentiate between throw and throws ? 5
- (c) What is Inheritance ? Briefly explain importance of super keyword in Java ? 5
- (d) What are shift operators ? How many types of shift operators are available in Java ? 5
- (e) Briefly explain benefits of stream classes. 5
- (f) Explain URL rewriting with an example. 5
- (g) Explain how exception handling is done in Java, with the help of an example. 5
- (h) What is a package in Java ? Explain how package is created in Java. 5

2. (a) Distinguish between the following terms with examples : 2.5x4=10
- (i) Exception and Error
 - (ii) Method overloading and overriding
 - (iii) Final and Finally
 - (iv) Instance variables and class variables.
- (b) What is constructor ? Explain constructor overloading in Java with an example. 10
3. (a) What is the common usage of serialization? 3
- (b) What is the result of compiling and running the following program ? 5
- ```
public class test
{
Public static void main (string args[])
{
int i = -1;
i = i>>1 ;
system.out. println (i) ;
}
}
```
- (c) Explain use of keyword *this* with the help of program ? 3
- (d) Create a class with in this package "Amount Inwords" to convert amount into words. (Consider amount not to be more than 100000) 9

4. (a) What is URL ? Explain two constructor for URL, in Java.net package. Explain how you may connect to a URL in Java. 8
- (b) Write an applet that draws circle, a line, and a polygon inside the applet's visible area. 5
- (c) Compare the different layout managers in brief. 7
5. (a) Write a servlet program that fetches all data from client and stores it in a database successfully. 8
- (b) What do you mean by an event ? Explain different components of an event. 6
- (c) What are the different types of AWT components ? How are these components added to the container. 6
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