

**MCA (Revised)**  
**Term-End Examination**  
**June, 2007**

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

Time : 3 hours

Maximum Marks : 100

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

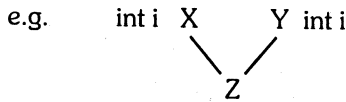
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1. (a) What is java virtual machine ? Explain. 4
- (b) What is the difference between method overloading and method overriding ? Explain with the help of examples. 3+3
- (c) What is data abstraction ? Why are classes known as abstract data types ? 3+2
- (d) When is private specifier used in a java program ? Explain with suitable example. 5
- (e) What is the difference between an applet and java application program ? 5



- (d) Can you have two variables with the same name in two interfaces which you are using to derive a new interface ?



Explain your answer.

5

3. (a) What is the difference in throw and throws ? Explain with the help of suitable example. 6
- (b) What are the methods of creating threads in java ? Explain. 6
- (c) What is the use of super keyword in java ? Explain. 5
- (d) Why do we need static data in a class ? 3
4. (a) Write an Applet in java to print the directory in which an HTML file containing that applet is stored. 5
- (b) Explain the three different methods used to create an object of InetAddress class. 3
- (c) What are the various colour constructors ? 4
- (d) Write a program in java to copy one file to another file using command line arguments. 8

5. (a) Write a program in java to accept an integer number from the user. An exception is thrown if number entered is  $< 10$ . 8
- (b) What are the JAR and Manifest files in java ? 4
- (c) Static functions can only access static data. Explain. 4
- (d) Differentiate between TCP client and TCP server socket with the help of an example. 4