

MCA (Revised)

Term-End Examination

June, 2011

MCS-024 : OBJECT ORIENTED
TECHNOLOGIES AND JAVA
PROGRAMMING

Time : 3 hours

Maximum Marks : 100

Note : Q. No. 1 is compulsory, Attempt any 3 questions from the rest. Attempt all parts of questions together.

1. (a) Explain, with suitable examples, the advantage of object oriented language over structured programming language. 7
- (b) Differentiate between method overloading and method overriding with an example. 5
- (c) What is the use of class path ? How it helps in the execution of a java program ? 4
- (d) Explain the advantages and disadvantages of garbage collection. 5
- (e) What is the use of Interface ? How can you define and implement it using a program ? 6
- (f) Differentiate checked and unchecked exception. 3
- (g) Write a program in JAVA to convert given Full Name eg. "Ajay Singh" into First Name i.e "Ajay" and Last Name i.e "Singh". Also sort the given list of names in ascending order of First Name ? 10

2. (a) How does java implements the model of interprocess synchronization using Threads ? Explain with the help of a program. 10
- (b) Write a program in Java which reads the content of a given file and writes it to the console. 10
3. (a) What is layout manager ? Which is the default layout manager ? Differentiate among the way of managing components by 5 different layouts. 10
- (b) Write a program for reading from and writing to a URL connection. 10
4. (a) Explain advantage of exception. How exception sub classes are created ? Create your own exception subclass "My Ex class" which takes an string as input and throws a message "string too large" when the size of string is more than ten characters. 10
- (b) Differentiate between Datagram and stream communication. 5
- (c) Explain two uses of "final" keyword with the help of example. 5
5. (a) Write the process of implementing cookies. What is the role of session in handling a cookie. 10
- (b) What is Inheritance ? Explain its advantages. Also explain with example how a subclass is derived from a super class in Java. 10