

MCA (Revised) / BCA (Revised)

Term-End Examination

07823

June, 2015

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

Time : 3 hours

Maximum Marks : 100

(Weightage 75%)

Note :

- (i) *Q. No. 1 is compulsory.*
- (ii) *Attempt any three questions from the rest.*

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1. (a) What is Class ? How does it accomplish Data Hiding ? Explain with an example. 5
- (b) State any three differences between AWT and Swing components. 6
- (c) Explain the concept of Inheritance and Polymorphism with an example of each. 8
- (d) What do you mean by serialization ? What is the common usage of serialization ? 5
- (e) What are cookies and session variables and where do we use them ? 5
- (f) Write a Java program to read text from keyboard and write it to a file called 'MyText.txt'. 6
- (g) Explain any five basic features of Java in brief. 5

2. (a) Differentiate between the following terms with examples : 3×4=12
- (i) Structured Programming and Object Oriented Programming
 - (ii) Data Abstraction and Encapsulation
 - (iii) length and length()
 - (iv) Class and Object
- (b) What are the two methods to create threads ? Explain them with a suitable example. 8
3. (a) What is RMI ? How can you create stub and skeleton ? Write the steps involved. 7
- (b) Write a program to read the content of the file 'MyDoc.doc' and display it on console. 6
- (c) What is exception ? Explain the basic causes of exception. Write a Java program to explain how exceptions are handled. 7
4. (a) Write a Java program to create a Shape class. Derive Circle and Square classes from it. Define constructor for these three classes. 7
- (b) Explain the different steps in the life cycle of an applet. 5
- (c) What is a package ? Develop a Java package with simple queue and stack class. 8

5. (a) What is Servlet ? Explain how session handling is performed in Servlet programming. 7
- (b) What is an Interface ? Write a Java program to show how a class implements two interfaces. 6
- (c) What is String class ? How is it different from StringBuffer class ? Write a Java program to find the length of a given string. 7
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