

MCA (Revised) / BCA (Revised)

Term-End Examination

June, 2016

09646

MCS-024 : OBJECT ORIENTED TECHNOLOGIES AND  
JAVA PROGRAMMING

Time : 3 hours

Maximum Marks : 100

(Weightage 75%)

---

**Note :** Question no. 1 is **compulsory**. Attempt any **three** questions from the rest.

---

1. (a) Explain the relationship between Data Abstraction and Encapsulation. 4
- (b) Explain the need of main() function in writing a Java program using an example program. 6
- (c) Explain function overloading using an example. 6
- (d) Explain Java Thread Model using Thread Life Cycle. 6
- (e) What is the usage of literals in a programming language ? Explain the usage of any six Java literals used in Java programming, with examples. 6

- (f) Explain the usage of Flow Layout and Card Layout in Java Applet with diagram. 6
- (g) Explain the usage of container in Java Applet and Servlet. 6
2. (a) Explain the usage of reserved ports in net programming for FTP, TCP, etc. 6
- (b) Explain all steps of using arrays in a Java program. 6
- (c) Write a program for reading input from the console using StringBuffer(). 8
3. (a) Explain all the components used for handling an event in a Java program. 6
- (b) What are Java beans ? Explain their special features. 6
- (c) Write a Java program to show inter thread communication. 8
4. (a) Explain method overriding using a program. 6
- (b) How does an index method help in string operations ? 6
- (c) Write the steps of incorporating Applet in a web page. 8

5. (a) Explain the usage of Stream Tokenizer class. 6
- (b) Write a Java program to convert all the strings of input to upper case. The input string should be submitted using a textbox in a form of web page. 6
- (c) Write the steps of JDBC in establishing a connection for creating dynamic website. 8
-