

MCA (Revised) / BCA (Revised)

Term-End Examination

December, 2016

04995

**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 inheritance and polymorphism. 4
- (b) Explain why main() is not included in writing a Java applet program using an applet coding. 6
- (c) Explain method overloading using an example. 6
- (d) Explain the process of inter-thread communication. 6
- (e) Explain the usage of three assignment operators and three bitwise operators in Java programming. 6

- (f) Explain the usage of GridLayout and GridBagLayout in a Java Applet with diagram. 6
- (g) Which types of components are used in designing swing based GUI ? 6
2. (a) Explain the usage of anonymous proxy servers in designing mailing application. 6
- (b) Explain the steps of using multidimensional arrays in a Java program. 6
- (c) Write a Java program for “writing output on console” using PrintWriter() method. 8
3. (a) Describe all the steps used in writing a Java program for handling events. 6
- (b) What is the usage of RMI in calling methods from remote class ? 6
- (c) Write a Java program to show interprocess synchronization. 8
4. (a) Explain multithreading using a program. 6
- (b) Explain the usage of lastIndexOf (int ch, int fromIndex) method in string operation. 6
- (c) Write a program for passing parameters to an Applet using a web page. 8

5. (a) Explain the term `BufferedStream` using a Java program. 6
- (b) Write a Java program for writing files in "C:\javafiles\" location. 6
- (c) Explain the steps of JDBC in establishing a connection for creating a dynamic website for `INSERT/UPDATE` the attendance record for employees of an organization. 8
-