

Total No. of Questions : 10] [Total No. of Printed Pages : 3

MCA-405(B)

M. C. A. (Fourth Semester)

EXAMINATION, June, 2011

JAVA PROGRAMMING AND TECHNOLOGIES

(Elective – I)

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Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 40

Note : Attempt *one* question from each Unit. All questions carry equal marks.

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Unit – I

1. (a) Why Java is known as platform neutral language ?
How is Java more secured than other languages ? 10
- (b) What is type casting ? Why is it required in programming ? 10

Or

2. (a) In what ways does a switch statement differ from if statement ? 10
- (b) What is package in Java ? Explain with example. 10

Unit – II

3. (a) What is Multithreading ? How does it improve the performance of Java ? 10
- (b) What is Thread ? Explain the life cycle of threads in detail. 10

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Or

4. (a) Define the Exception. How exceptions are handled in Java ? Explain any *five* exceptions with example. 10
 (b) Write a program for thread using runnable interface for producer-consumer relationship. 10

Unit – III

5. (a) What is event handling in Java ? Create a mouse click event on press button. 10
 (b) Write a program using print() method and draw a rectangle on Java applet. 10

Or

6. (a) Write difference between applets and frames. Write an application to add two number using awt component (Button, text box etc). 10
 (b) Explain the life cycle of an applet. 10

Unit – IV

7. (a) Explain the JDBC/ODBC bridge. Write the steps for connecting Java program to a database. 10
 (b) Create a random access file stream for the file "student.dat" for updating the student information in the file. 10

Or

8. (a) Write a program to get input from user using buffer reader and buffer writer. 10
 (b) Explain the following : 10
 (i) Input stream
 (ii) Output stream
 (iii) File stream
 (iv) Buffer reader

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Unit – V

9. (a) Explain socket program and write the difference between TCP socket and UDP socket. 10
 (b) What is RMI ? Explain the steps of creating RMI application with example. 10

Or

10. (a) What is proxy server and inet address in Java ? Explain. 10
 (b) Write short notes on the following : 10
 (i) Collection framework
 (ii) Collection interfaces

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