

Roll No. ....

**67151**

**MCA Regular 4th Semester (New)**

**Examination – May, 2012**

**ADVANCED JAVA PROGRAMMING**

**Paper : MCA-401**

*Time : Three hours ]*

*[ Maximum Marks : 75*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

*Note : Attempt five questions in all, selecting at least one question from each Unit. All questions carry equal marks.*

**UNIT – I**

1. (a) Write a Jscript to demonstrate date and time methods of the date object.  
(b) Describe various Implicit objects of the JSP ? What is the scope of those objects ?
2. (a) What is delegation event model ?  
(b) Explain in brief about event sources and event listeners.

## UNIT – II

3. (a) What is the difference between Swing and AWT ?  
(b) Write a Swing application to display the random colors on the button click event.
4. (a) What is a Java Beans ? What are the advantages of using Java Beans ?  
(b) Explain what is a Swing ? List the advantages of Swing.

## UNIT – III

5. (a) Explain Life cycle of Servlets.  
(b) Explain the Java Servlet Architecture.
6. (a) Explain Java Server pages (JSP). What are the advantages using JSP over Servlets?  
(b) Explain some of the bugs & solution in Tomcat server ?

## UNIT – IV

7. (a) Write a program using JSP tags to Compute Fibonacci numbers from 1 to 10.  
(b) What is the need for Session tracking in the Servlet? What are the different techniques used for Session tracking?
8. (a) What are the seven basic steps for using JDBC to access a database ? Explain briefly with syntax.  
(b) How to connect a database into Java application