

Roll No. ....

**67161**

**M.C.A. 4th Sem.**

**Examination-May, 2013**

**(w.e.f. May, 2013)**

**Advanced Java Programming**

**Paper-MCA-401**

**Time : 3 hours**

**Max. Marks : 80**

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 the examination.

**Note :** There shall be 8 questions in all, students shall be required to attempt five questions in all selecting at least one question from each unit. All questions shall carry equal marks.

**Unit-I**

1. What do you understand by applet ? How applet is used with HTML ? Explain the life cycle of applet, using example. 16

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[ Turn Over

2. (a) What are AWT classes ? Discuss working with frame and displaying information within a window. 10  
(b) How to presenting XML ? Explain DOM. 6

**Unit-II**

3. What is swing in Java ? What is difference between AWT and Swing ? Explain any five components in Swing with java segment. 16  
4. Explain the following : 6+6+4  
(a) Java Bean  
(b) Java Bean Properties  
(c) Java Bean API

**Unit-III**

5. (a) What is Servlet life cycle ? Explain Cookies-Session Tracking and Security issues. <http://www.HaryanaPapers.com> 10  
(b) What is HTTPSERVLETREQUEST interface? 6  
6. (a) What is difference between JSP and Servlet ? How to installing Tomcat Server and testing Tomcat ? 10  
(b) What is HTTPSERVLETRESPONSE interface ? 6

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## Unit-IV

7. Write on the following : 6+4+6

- (a) Scripting elements implicit JSP objects
- (b) Generating dynamic content
- (c) Error handling and debugging sharing data between JSP pages

8. What is Database programming and struts framework ? Explain accessing a database from a JSP page application. 16

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