

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. 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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