

Explain processing of JSP
with example. (16)

UNIT-IV

8. (a) How to use scripting elements and implicit JSP objects JSP ? Explain steps to create a JSP Page. [9]
- (b) Write a JDBC program to update student whose city is 'Chandigarh' update it to 'Mumbai'. [7]
9. Discuss the following:
- (a) Share data between JSP pages [6]
- (b) Struts framework [5]
- (c) Declaring variable and methods. [5]

Roll No.

67171

M.C.A. 4th Sem. (with new notes)
M.M. 80

Examination-May, 2017

ADVANCED JAVA PROGRAMMING (NEW)

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 **9** questions. Question No. **One** will be **compulsory** and in addition to the compulsory question, students have to attempt **four** more questions selecting **one** question from each unit. All questions shall carry equal marks.

1. Attempt all questions : [8×2 = 16]

(a) What is JAR ?

- (b) What is cvf ?
- (c) What is static keyword ?
- (d) What is final keyword ?
- (e) What is access specifier?
- (f) What is event ?
- (g) What is tomcat ?
- (h) What is finally keyword ?

UNIT-I

2. (a) What do you understand by event handling ? What are the steps to perform action by various AWT components in event handling ? Explain. [10]
- (b) What are the steps of Applet life cycle ? Explain features of an Applet. [6]
3. (a) What do you understand by XML document structure ? Explain main components of an XML Document. [10]

- (b) What is DOM and how does it relate to XML ? [6]

UNIT-II

4. How Swing is lightweight component and what are its benefits ? Explain JMenuBar, JPopupMenu, and JScrollBar with programs. [16]
5. Why and how Java bean is used ? What are advantages of Java bean ? Explain Java Bean Properties with example. [16]

UNIT-III

6. Explain the following with example:
 - (a) Servlet API [6]
 - (b) Cookies-Session Tracking [5]
 - (c) HTTPSERVLETREQUEST interface [5]
7. (a) How JSP differ from Servlet ? How design JSP application with MVC ?