

Explain processing of JSP
with examples (16)

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8. (a) How to use scripting elements and implicit JSP tags in JSP? Explain steps to create a JSP page. [9]

(b) Write a JSP program to update student whose city is 'Chandigarh' to 'Chennai'. [7]

9. Discuss the following

(a) Share data between JSP pages [6]

(b) Struts framework [5]

(c) Declaring variables and methods. [5]

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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 _____ keyword ?
- (c) What is _____ keyword ?
- (d) What is _____ keyword ?
- (e) What is _____ specifier?
- (f) What is _____ ?
- (g) What is _____ at ?
- (h) What is _____ y keyword ?

UNIT-I

2. (a) What do you understand by event handling? What are the steps to perform an action by various AWT components in event handling? Explain. [10]
- (b) What are the steps of Applet life cycle? Explain the features of an Applet. [6]
3. (a) What do you understand by XML document structure? Explain the 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 a 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 the 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 to design JSP application with MVC? [5]