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MANIPAL INSTITUTE OF TECHNOLOGY
(Constituent Institute of Manipal University)
MANIPAL-576104



SEVENTH SEMESTER EXAMINATION

Nov - 2009

**SUBJECT : JAVA ENTERPRISE EDITION [JEE-CSE 403.6]
(REVISED CREDIT SYSTEM)**

TIME : 3 HOURS

MAX.MARKS : 50

Note: 1. Answer any five full questions .

- 1 a) With a neat diagram explain the architecture of JEE? 3
- b) Explain the directory structure of a WEB application? 2
- c) What is the difference between a web server and an application server? 2
- d) Given the following HTML form, what will be the result upon pressing submit button?
(Mention if the result is error or not, if no error -method used and parameters passed)? 3

```
<form action="/servlet/Register">
<input type="text" name="fullName" value="Type name here" />
<input type="submit" name="sbmButton" value="OK" />
</form>
```

- 2 a) What is a JSP? Explain the life cycle of JSP? 1+2=3
- b) What is the result of attempting to access the following JSP page? 2

```
<%@ page language="java" %>
<html>
<head><title>Question 2 b</title></head>
<body>
<h1>Question 2 b</h1>
<%!public void _jspService(HttpServletRequest request,
HttpServletResponse response) {
out.write("A");
} %>
<% out.write("B"); %>
</body>
</html>
```

- c) Group the following JSP directives in to valid or invalid ?Justify the same. 5
 - i <%@page isELIgnored = "false" %>
 - ii <%@ page session=the"/ is okay true' %>
 - iii <%@ page contentType="image/music/text" %>
 - iv <%@include uri="header.jsp" %>
 - v <%@ taglib prefix="mytags" uri="http://www.sun.com /taglibs/mytags" %>

3 a) What are the advantage of servlets over other common server extension mechanism ?

3

b) Given the following deployment descriptor (dd)and servlet ,What is the result of loading the web-app with the dd and attempting to execute the servlet? 2 marks

```
<web-app>
<context-param>
<paramname>author</paramname>
<paramvalue>Elmore Leonard</paramvalue>
</context-param>
</web-app>
```

```
public class ContextInitParms extends HttpServlet { protected void
doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    out.write("<HTML><HEAD></HEAD><BODY>");
    ServletContext sc = getServletContext();
    out.write(sc.getInitParameter("author"));
    out.close();
}
}
```

c) State whether the following statement is true or false with proper justification- Attempt of execution of the above servlet code (refer 3 .b) will result in throwing exceptions. 2

d) What are the different types of the jdbc drivers ? 3

4 a) Explain MVC architecture relating to J2EE? 3

b) Explain the basic and form based authentication? 3

c) What is struts ?How struts works ?What is the role of configuration file in struts ? 1+2+1=4

5 a) What are the different types of enterprise Beans ? 3

b) What are the transactional attributes that EJB supports? 2

c) What is the difference between java bean and EJB? What is new in EJB 3.0 ? 3+ 2 =5

6 a) Explain the architecture of hibernate with the help of neat diagram ? 4+1 =5

b) What is persistence ?Explain the usage of persistence in object oriented applications ? 1 +4 =5