(Please write your Exam Roll No.) **Exam Roll No. ……**

END TERM EXAMINATION

FIFTH SEMESTER [MCA] DECEMBER- 2012

Paper Code: MCA-305	**Subject: Enterprise Computing in Java.**
Time: 3 Hours	**Maximum Marks: 60**

Note: Attempt all questions. Internal choice is indicated.

1. Answer the following

a. Compare generic and http servlets. **2**

b. Explain the salient features of enterprise computing. **2**

c. Explain standard actions that are used in JSP. **2**

d. Explain the architectural components of the struts. **2**

e. Explain extended persistence context in entity beans. **2**

f. Explain the integration of Java Message Service(JMS) with Enterprise JavaBeans(EJB). **2**

2.

a. Explain the MVC architecture. **4**

b. Draw the life cycle of servlets and explain its working. **4**

c. Mention various components of J2EE. Give the functionality of each component. **4**

OR

a. Mention the various concerns that need to be resolved by the enterprise developer. **3**

b. Explain the following: **9**

i. Servlet Context

ii. Servlet Configuration

iii. Servlet Collaboration

3.

a. Draw the architecture of JSP and explain its working. **4**

b. The servlet services use POST request and retrieves the parameters (for example user defined employee records) and the html browser displays the parameters. Create a servlet application that uses html object package for the above statement. **5**

c. Explain JSP design strategies. **3**

OR

a. Explain struts and give its advantages. **4**

b. Write a java strut program to illustrate control flow and data flow between various components of a web application. **5**

c. Explain JSP directives. **3**

4.

a. Compare entities beans and session beans. Give their applications. **3**

b. Explain any four characteristics of message driven beans. **4**

c. For Java Message Service (JMS) , give the sequence of steps to establish connection between JMS-client and JMS-server. **5**

OR

a. Explain the lifecycle of session beans. **4**

b. Compare stateful and stateless session beans. Give an example for illustration. **6**

c. Explain the role of persistent and non persistent for session beans. **2**

5.

a. Explain EJB and java EE integration. **4**

b. Explain distributed object and middle objects in EJB. **4**

c. Using bean class and deployment descriptor, write a client code that invokes a method (to display student details) in remote stateless bean. **4**

OR

a. Explain enterprise beans and its corresponding types. **4**

b. The following components of EJB container: **6**

   i. Remote client connectivity

   ii. Database connection pooling.

   iii. Transaction management

c. Explain the remote local interface and home interface in EJB. **2**