

# **END TERM EXAMINATION**

**FIFTH SEMESTER [MCA] DECEMBER 2013**

**SUBJECT: Enterprise Computing With java**

**Note: Attempt any five questions including Q.no.1 which is compulsory.  
Select one question from each unit.**

**Q1: Answer all of the questions:-**

**(2\*10=20)**

- a) What is the difference between Get and Post request?
- b) What are disadvantages of CGI system?
- c) Define taglib directive of jsp with an example.
- d) What are the important features of struts and also mention the latest version of struts?
- e) Define remote interfaces. Write logic to create remote interfaces.
- f) Define message-driven bean and what is the use of onMessage() method?
- g) What are the benefits of EJB?
- h) What is bean class? Is it possible to define bean class without implementing Serializable interface?
- i) Write a program to define simple Stateless Session bean class using annotation.
- j) Create hello world jsp page. Is it possible to implement an interface in the jsp file?

## **Unit – I**

**Q2: (a) explain MVC architecture in detail with diagram. What are the advantages of MVC? (10)**

Or

**(b) what is ServletConfig Interface? Write a ServletConfig example to get initialization parameters. (10)**

## Unit – II

**Q3: (a)** What is JSP? Why is JSP lower than sevlet? Create a JSP program to access a java bean. (10)

Or

**(b)** Create a jsp program for downloading a file from web Server. (10)

## Unit –III

**Q4: (a)** Explain EJB architecture in detail. What are the services of EJB container? (10)

Or

**(b)** what is deployment discripiter? Create the Structure of deployment discripiter web.xml. If web.xml has <content-param> then what does it mean? (10)

## Unit – IV

**Q5: (a)** Explain following terms: (2.5\*4=10)

1. Session beans
2. Entity beans
3. Message-driven bean
4. JMS

Or

**(b)** Explain Entity Beans. Create an Entity Class for Employee by using annotations (@Entity, @Table, @Column , @Id) with following details. (10)

- I. Name
- II. Id
- III. Date of birth
- IV. Salary

\*\*\*\*\*