

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
