END TERM EXAMINATION

FIFTH SEMESTER [MCA]   DECEMBER- JANUARY 2016

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

Note: Attempt any five questions, including Q.No 1 which is compulsory.

Q1 Answer of the following briefly:-   **(2x10=20)**
(a) What is the difference between a Web Server and an Application Server?
(b) What is connecting pooling?
(c) What is the difference between get and post request methods?
(d) What is the need for session tracking?
(e) What is the difference between include directive and jsp:include action?
(f) What is the use of implicit object applications?
(g) Why is the use of scriplets discouraged?
(h) What is the need for session beans?
(i) What are the features of an enterprise application?
(j) What are the advantages of JMS?

Q2 Answer **any two** of the following:-   **(5x2-10)**
(a) Discuss the relation between the Servlet container and a Servlet, clearly explaining how multiple simultaneous requests are served by a Servlet.
(b) Create a login Servlet to demonstrate the usage of cookies. Assume that the servlet gets UserID and Password as request paramaters.

Q3 Use a Servlet to save the following data received from a HTML in a database **(10)**
(i)   Name (input through a textbox),
(ii)   Gender (input through a set of radio buttons) and
(iii)   Hobbies (input through a set of checks boxes).

Q4 Answer **any two** of the following:-
(a) Explain the JSP life cycle.   **(5)**
(b) Write a JSP that generates a Hit Count.   **(5)**

Q5 (a) Explain any five attributes associated with JSP page directive.   **(5)**
(b) Explain need for message driven beans in detail.   **(5)**

Q6 Answer **any two** of the following:-   **(5x2=10)**
(a) Discuss different types and sub-types of Enterprise Java Beans.
(b) Create the remote interface and bean class for a stateful session bean that allows deposit and withdraw in a bank account.

Q7 Write the business method for a stateless session bean that finds an entity bean on the basis of its primary key and returns some attribute of the found bean.**(10)**

Q8 Answer the following:-   **(5x2=10)**
(a) Explain the JMS Programming model.
(b) Explain with help of code snippets, how asynchronous messages may be generated using a MDB.

Q9 (a) Explain the difference between a queue and a topic.   **(5)**
(b) Discuss MVC architecture in detail.   **(5)**

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