UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2018

Program: B.Tech-CSE + all IBM specialization   Semester – VI
Subject (Course): Enterprise Java   Max. Marks : 100
Course Code : CSEG317   Duration   : 3 Hrs
No. of page/s: 2

	SECTION A		
S. No.		**Marks**	**CO**
Q 1	What are the key challenges of enterprise application faced?		**CO1**
Q 2	What are core J2EE technology?		**CO1**
Q 3	Draw and explain the brief architecture of ejb container.		**CO5**
Q 4	List all the advantage of JSTL tags.		**CO3**
Q 5	List out the differences between forward methods of RequestDispatcher and sendRedirect.		**CO2**
	SECTION B		
Q 6	Suppose we have a project of displaying book content through servlets, a single servlet is used for Printing each page of a book, All pages contain author name at top & content following. Write all steps involved in making such a project that is capable of printing the following Information, This information will be set in Deployment Descriptor only. • Write Java code & Web.xml file. • Java code should have a Writer object to print output. • Java code should have used Servlet Context & Servlet Config parameters to receive values from the xml file. • Author Data should be in ServletContext & Content Should be in Servlet Config.		**CO2**
Q 7	Using which function can we add the batch in our programming describe with the example. What is the disadvantage of using batch? How to overcome this disadvantage? Explain with a proper example.		**CO1**
Q 8	Write all the steps followed for creating session bean from the bean creation then interface creation till deployment. [Note: take any example for that.]		**CO5**
Q 9	a. What are the methods available in ServletDispatcher describe with example each of them? [5 marks] b. Differentiate JSP declarative tag with scriplet tag [5 marks]		**CO2, CO5**
	SECTION-C		

Q 10	Write a MVC architecture based program, in which there should be a login page with field like login name and password, as user enter their entries it should be handle by controller servlet, controller should validate the entries by calling the login bean class and finally if the user is valid user then result should be printed in sussess.jsp page and if the user not valid then result should be printed in login-error.jsp page. [Note: all require file must be written along with the xml file also proper output should be drawn along with some description about MVC architecture.]		CO4
	or		
	Write all the steps for creating EJB basic application. Take an example of any bean class that bean class must be accessible by RMI interfaces, also write ejb-jar.xml file. All the steps must be properly describe.		CO4
Q 11	JSP directive tags are most prominent tag of JSP justify it, write flavors of JSP directive tag proper description of each one of them.		CO3

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S. No.	SECTION A	Marks	CO
	SECTION A		
S. No.		**Marks**	**CO**
Q 1	Describe all enterprise application architecture.		**CO1**
Q 2	What are the helper technology J2EE contain in it?		**CO1**
Q 3	What do you mean by EJB container?		**CO5**
Q 4	List all the advantaged of JSP custom tags		**CO3**
Q 5	What are the steps followed by servlet filters for giving the response to user.		**CO2**
	SECTION B		
Q 6	Write a servlet listener (Servlet Context Listener class) which will create connection with a student database at deploy time and it will close all connection at the time of un-deployment of server. (Assume a student database having have column like if and name and it has two records and suppose you are having my sql as database and you are using type 4 driver). The following file you need to be write: • Write servlet listener class • A web.xml file • Description of output		**CO2**
Q 7	Describe the proper usage of executeQuery() and executeUpdate() function with suable example for both.		**CO1**
Q 8	EJB comes in three flavor; describe each of them; draw a life cycle of stateless and statefull session bean		**CO5**
Q 9	a. Write the life cycle of servlet. Write one example for describing it. [5 marks] b. Why we called EJB as component based distributed architecture, how EJB is different from java bean.[5 marks]		**CO2, CO5**
	SECTION-C		
Q 10	Write a MVC architecture based j2ee program, in which a student bean class will be there, a user will enter the student id and that ID will authenticate in student bean class		**CO4**

	and it will pass it to StuServlet class, it will process the data acquire by bean class and classify it to corresponding branch like CSE, ETC or Mech. According to their branch, servlet will transfer it to corresponding JSP file. [note: bean class must maintain data for 10 students in form of stu_id, name branch etc.]		
	or		
	What is the role of bean class in MVC architecture; draw the flow of control followed by MVC architecture.		**CO5**
Q 11	Write a JSP custom tag for finding factorial of a number, it should have fact as a tag name and number as an attribute for that.		**CO3**