

DHARMSINH DESAI UNIVERSITY, NADIAD FACULTY OF TECHNOLOGY **B.TECH – SEMESTER – VI, IT** SUBJECT: [IT 617] ADVANCED JAVA TECHNOLOGY

: BLOCK Exam Examination Seat No.

07/04/2018 : Saturday Date Day : 36 11:00 to 12:15 PM Max. Marks Time

INSTRUCTIONS:

- 1. Figures to the right indicate maximum marks for that question.
- 2. The symbols used carry their usual meanings.
- Assume suitable data, if required & mention them clearly.
- Draw neat sketches wherever necessary.

Q.1 Do as directed. [12] (a) Explain the following elements of the web.xml file, used in servlet. 1. <session-config> [1] [1] 2. <welcome-file-list> (b) Describe the interaction between a client web browser, Http Server, Server Container and [2] Servlet with Diagram. Compare CMP and BMP entity beans. [2] (d) 1. Differentiate: <c:forEach> and <c:forToken> tags of core tag. [1] [1] 2. State different isolation level used for transaction management in jdbc. Discuss custom tag in JSP. Explain development of <mytag:date/>, which should (e) [4] server's current date. Write following files: Tag Handler, TLD, and use of display custom tag. Q.2 Attempt *Any Two* from the following questions. [12] (a) What is RequestDispatcher? What are its two methods? Using RequestDispatcher write the code for the following: index.html file with two text boxes to enter username and password and a login Button. Login.java servlet class to process the response. If the password is "ddu" it should forward the request to WelcomeServlet.java which displays "Welcome<Username>". If the password is not "ddu", Login.java should display "Sorry Username or password error". web.xml, the deployment descriptor file that contains the information about the servlet. (b) Write RMI client/server implementation to read and print content of the file located on [6] server at client. Filename should be passed by the client to server. Write all necessary (c) 1. Explain life cycle of stateful and stateless SessionBean, also explain container callback [4] for SessionBean. 2. Differentiate: <\@include \%> and <\ip:include/>. [2] Q.3 Attempt *ALL* from the following questions. [12] Create and use CMP entity bean to model Car database table. The Car has Car ID, name, [6] company, and price. The bean provides facility of searching a Car based on name and

company. Write required interfaces, bean implementation and deployment descriptor files.

(b) 1. What is native method? Write steps and commands used to execute, while working on [3] [3] native methods?

2. Explain how EJB invocation happen using EJBHome and EJBObject. Explain life cycle of Entity Bean.

OR

- Q.3 Attempt *ALL* from the following questions.
 - [12] What is the Prepared Statement? Write a JDBC program using prepared statement to [6] insert five records in Customer Table with fields CustomerNo, FirstName, LastName, Address, MobileNo, and Email.
 - Create and use BMP entity bean to model Employee database table. The Employee has Emp ID, EmpName, EmpSalary, and EmpDept. The bean provides facility of searching an employee based on ID and Name. Write required interfaces, bean implementation and deployment descriptor files.