

DHARMSINH DESAI UNIVERSITY, NADIAD **FACULTY OF TECHNOLOGY** B.TECH – SEMESTER – VI, IT

SUBJECT: [IT 619] ADVANCED JAVA TECHNOLOGY PART-2 OF SESSIONAL EXAM-III

Examination B. Tech - Semester - VI Seat No.

26/03/2021 Day : Friday : 45 Minutes **Time Duration** Max. Marks : 16

INSTRUCTIONS:

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

om the following questions.	Attempt Any Two fr	Q.2
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(a) Explain how EJB invocation happens using EJBHome and EJBObject. Explain container callbacks of Session Bean.

[8]

[8]

- (b) Write a JSP code, with the use of JSTL, in which you have to take a number and user name from a user. And check for the following condition.
 - Entered number is prime number or not.
- (c) Implement custom tag <math:cube>, which should display cube of a number iteratively based on repeat count attribute.

< math: cube number="\$ {num}" repeat="3"/>

Write supported files used to implement tag. Number attribute value, "no" should be passed dynamically.

- 0.3 Attempt *ALL* from the following questions.
 - [8] Write an enterprise application for the Session bean that allows calculating EMI for [6] vehicle loan. The user provides the duration (in years) of loan, and the session bean calculates the EMI based on current interest rate.
 - Write required interfaces and bean implementation files.
 - (b) List out methods of HttpServletRequest, useful for implementation of programmatic [2] security in a Web Application.

OR

- Q.3 Attempt *ALL* from the following questions.
 - Implement a count tag using Body Tag Support class. The count tag is used to count [5] no. of characters and no. of words present in the body of count tag. The generated output is in the format, for example, #characters: 70 and #words: 20. The tag does not print the body that is passed to it.
 - (b) Differentiate between Basic and Form based authentication. Write configuration files [3] that are used for form based authentication to the web application.