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B.TECH
(SEM V) THEORY EXAMINATION 2022-23
WEB TECHNOLOGY

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections. If you require any missing data, then choose suitably.**SECTION A**

- 1. Attempt all questions in brief. 2 x 10 = 20**
- Discuss the comparison among JDK, JRE and JVM?
 - Discuss basic elements of a good website design.
 - Discuss the usage of Cascading style sheets.
 - What is DHTML?
 - Define Protocol. Provide the name of protocols governing web.
 - What do you understand by Datagram?
 - Discuss difference between ODBC and JDBC.
 - Discuss do Post() and do Get() method.
 - Discuss difference between CGI and Servlet.
 - Discuss JSP Technology.

SECTION B

- 2. Attempt any three of the following: 10 x 3 = 30**
- Discuss the Packages in Java. Discuss how to create a user defined package in Java with a suitable example.
 - Write HTML code to design "a form for online Railway Reservation Website" (Make Assumptions).
 - What is AJAX and also discuss its Advantages? Explain its working with a suitable Example.
 - Write down the steps to connect database with web application using JDBC.
 - Explain the Servlet Life Cycle. Write a servlet code to display a string "WEAR MASK!"

SECTION C

- 3. Attempt any one part of the following: 10 x 1 = 10**
- What are 'Exceptions' and how they are 'Handled' in Java? Explain the keywords try, catch, throw, throws with a suitable example.
 - Discuss what you understand by Inheritance? List out various type Inheritance with suitable example
- 4. Attempt any one part of the following: 10 x 1 = 10**
- Write the HTML code to design a Student registration form. (Assume fields).
 - What is DTD? Discuss its differences with XML Schema.
- 5. Attempt any one part of the following: 10 x 1 = 10**
- Discuss in brief how to perform Client Side Validation like Mandatory fields and Email field using Java Script? Justify with a suitable example.
 - What is CSS? Discuss the different ways to create CSS. Explain with example.

6. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) What is EJB, also discuss its Architecture. Differentiate between Java Bean and EJB.
 - (b) What are java Beans? Why they are used? Write a JSP page and use an existing java bean in JSP page by using the standard action. Write the program with describing the output?
7. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) Discuss the different types of standard action tags used in JSP. Discuss the implicit objects available to JSP page.
 - (b)
 - (i) Create a HTML Form for taking Account Number as User Input.
 - (ii) Write a Servlet program receiving this HTML form data and connect it with the Database by using JDBC.
 - (iii) Send the current user Account Balance stored in a specific Database back to the User as response.
 - (iv) Mention all the assumptions like Table Name, Database Name, Field Name etc

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