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**COER University****END SEMESTER EXAMINATION, EVEN SEMESTER, 2023-24**

Time : 3 hour  
 Program Name: B.Tech  
 Course Code : SOC320

Semester : VI  
 Branch/Specialization: CSE  
 Course Name : Web Technology

Total Marks: 100

Note: All questions are compulsory. No student is allowed to leave the examination hall before the completion of the time.

Q. No 1	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Describe the process of writing a web project, including key considerations and steps involved.	CO 1	2
(b)	Define Heading Tags with an example.	CO 1	2
(c)	Discuss the importance of data types in Java programming.	CO 1	2
(d)	Define XML? What are the advantages of XML.	CO 1	2
(e)	Differentiate between Java applets and standalone applications, including their respective usage scenarios.	CO 1	2

  

Q. No 2	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	What is the purpose of Document Type Definition (DTD) in XML, and how does it validate XML documents?	CO 2	2
(b)	Discuss the concept of Dynamic HTML (DHTML) with an example and also brief how it allows for the creation of interactive and responsive web pages.	CO 2	2
(c)	Explain CSS types in controlling the visual presentation of HTML elements, including properties and selectors used.	CO 2	2
(d)	Describe XML schemas. Also explain How do they differ from DTDs in defining the structure and validation rules for XML documents?	CO 2	2
(e)	Describe the role of images in web page design and how they contribute to visual appeal and user engagement.	CO 2	2

  

Q. No 3	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Describe the concept of objects in JavaScript and how they are employed to represent complex data structures and behaviors within scripts.	CO 3	2
(b)	Explain the importance of forms in JavaScript and their function in collecting user input and facilitating interaction on web pages.	CO 3	2
(c)	How are TCP/IP client sockets utilized in Java, and what capabilities do they provide for establishing and managing network connections?	CO 3	2
(d)	Describe the URL (Uniform Resource Locator) and its significance in identifying resources on the internet.	CO 3	2
(e)	Explain the concept of Datagram in Java networking.	CO 3	2

  

Q. No 4	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL
(a)	Describe the different types of beans in Enterprise JavaBeans (EJB), highlighting their respective characteristics and use cases.	CO 4	2
(b)	How does Java Database Connectivity (JDBC) facilitate merging data from multiple tables in a database, particularly through joining operations?	CO 4	2

(c)	Define the process of the following i) String Handling ii) Event Handling	CO 4	2
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<b>Q. No 5</b>	<b>Attempt Any Two Parts. Each Question Carries 10 Marks.</b>	<b>CO</b>	<b>BL</b>
(a)	Explain how servlets handle HTTP GET requests, including the process of receiving and processing data from clients.	CO 5	2
(b)	Explain the role of cookies in session tracking and how they are utilized to store and retrieve session information.	CO 5	2
(c)	Discuss the concept of implicit objects in JSP and how they provide access to request, response, session, and application information.	CO 5	2

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