

BACHELOR OF TECHNOLOGY (CBCS - 2023)
B. Tech. Sem-I INFORMATION TECHNOLOGY : WINTER: 2025
SUBJECT: WEB TECHNOLOGIES

Day : Thursday
Date : 18/12/2025

W-27660-2025

Time : 10:00 AM-01:00 PM
Max. Marks : 60

NB :

1. Assume suitable data, if necessary.
2. Draw neat labelled diagrams WHEREVER necessary.
3. Figures to the right indicate FULL marks for the question.
4. All questions are COMPULSORY.

Q. 1 Describe the HTTP Client-Server architecture. How do web applications function using this model? (10)

OR

Q. 1 Discuss the role of FTP in file transfer over the Internet. Explain how FTP works in both active and passive modes. (10)

Q. 2 Explain the different types of stylesheets in CSS. Discuss the advantages and disadvantages of each with examples. (10)

OR

Q. 2 What is Bootstrap? How does it help in web development? (10)

Q. 3 Discuss key jQuery features and provide examples of event handling and DOM manipulation. (10)

OR

Q. 3 What are JavaScript data types? List and explain them with examples. (10)

Q. 4 Describe the role of Document Type Definition (DTD) in XML. Discuss the different types of DTDs, their syntax, and their importance in ensuring document validity. (10)

OR

Q. 4 Describe the key components of an XML document, including elements, attributes, and namespaces. Provide examples to illustrate their usage. (10)

Q. 5 What is a Graphical User Interface (GUI)? Discuss its advantages and disadvantages compared to other types of user interfaces. (10)

OR

Q. 5 What is a user interface? Discuss the different types of user interfaces and explain their significance in enhancing usability and user experience. (10)

Q. 6 Describe the importance of screen planning in interface design. How should screen elements be organized to create an intuitive and efficient user experience? (10)

OR

Q. 6 What are Eight Golden Rules of Interface Design? Explain their significance in designing user-friendly interfaces with suitable examples. (10)
