

BE Sem 8, Choice based, R2019-20, C-Scheme, May 2025
Date: 15/5/2025, Branch- EITC

(Time: 3 Hours)

Marks: 80

N.B: (1) Question No. 1 is compulsory

(2) Attempt any three questions out of remaining five questions

- Q1 a) When you enter a URL in the address bar of your browser, what is happening in the background? Explain it in brief. [5]
b) Briefly describe the key characteristics of web services. [5]
c) What is the difference between the echo and print statements in PHP? [5]
d) Define jQuery and discuss its benefits. [5]
- Q2 a) How does the Bootstrap grid system work? Explain its rules and provide the basic structure with an example code. [10]
b) Differentiate between external, internal, and inline CSS. [10]
- Q3 a) What are arrays in JavaScript, and how are they defined? Create an array named car with 5 values and display them using an HTML form. [10]
b) Compare the AJAX application model with the traditional web application model by drawing their diagrams. [10]
- Q4 a) Describe the various communication models used in web services, along with their advantages and disadvantages. [10]
b) Explain the components of the three-tier web architecture with a diagram and discuss its significance. [10]
- Q5 a) What is session tracking in servlets, and what are the different methods to achieve it? [10]
b) Explain the working of the MVC architecture in detail and highlight its advantages. [10]
- Q6 a) Enumerate and explain the properties used in CSS animations with examples. [10]
b) Design an HTML form to collect employee details (Emp_Id, First_Name, Last_Name, and Gender) and write PHP code to insert this data into an Employee table in a MySQL database. [10]
