

Roll No.

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SHAMBHUNATH INSTITUTE OF ENGINEERING AND TECHNOLOGY

Subject Code: BCS-502Subject: WEB TECHNOLOGYCourse: B.Tech.Semester: 6th

FIRST SESSIONAL EXAMINATION, EVEN SEMESTER, (2024-2025)

Branch: Computer Science & Engineering

Time-1hr30min

Maximum Marks-30

NOTE : (Attempt all sections)

1. Attempt any FIVE questions.

QN	QUESTION	Marks	CO	BL
a.	Why is planning essential before starting a web project?	2	CO1	L2
b.	How can you create a numbered list in HTML?	2	CO1	L3
c.	What is the purpose of a DTD in XML?	2	CO1	L2
d.	What is an XML Schema?	2	CO1	L2
e.	Which XML processor is more memory efficient, DOM or SAX?	2	CO1	L2
f.	Name two internet services commonly used for communication.	2	CO1	L1

2. Attempt any ONE of the following.

QN	QUESTION	Marks	CO	BL
a.	Explain the purpose of DTD in XML and illustrate how to define a simple DTD for a book catalog.	5	CO1	L3
b.	Write a HTML code for designing a Registration Page.	5	CO1	L4
c.	Explain the role of key protocols like HTTP, HTTPS, and FTP in governing the web.	5	CO1	L3

3. Attempt any **FIVE** questions.

QN	QUESTION	Marks	CO	BL
a.	What is a pseudo-class in CSS?	2	CO1	L2
b.	Define the CSS Box Model.	2	CO1	L1
c.	What is the difference between 'id' and 'class' selectors in CSS?	2	CO1	L3
d.	How can you create a navigation bar using CSS?	2	CO1	L4
e.	How do you make an element float to the right side of its container?	2	CO1	L4
f.	What is the purpose of using image sprites in CSS?	2	CO1	L3

4. Attempt any **ONE** of the following.

QN	QUESTION	Marks	CO	BL
a.	Describe the difference between 'inline', 'block', and 'inline-block' display values in CSS, and give examples of where each might be used.	5	CO2	L4
b.	Explain the concept of floating in CSS. How can floating elements create a multi-column layout, and what is the purpose of the 'clear' property?	5	CO2	L3
c.	What is the CSS Box Model, and how does it impact page layout? Explain each part of the Box Model with examples.	5	CO2	L4

Bloom's Taxonomy Level (BL): -

Remember (L1), Understanding (L2), Apply (L3), Analyze (L4), Evaluating (L5), Creating (L6)