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MCA
(SEM II) THEORY EXAMINATION 2024-25
WEB TECHNOLOGY

TIME: 3 HRS**M.MARKS: 70****Note:** Attempt all Sections. In case of any missing data; choose suitably.**SECTION A****1. Attempt all questions in brief.****02 x 7 = 14**

Q no.	Question	CO	Level
a.	What is the difference between the Internet and the Web?	1	K2
b.	How do you include an external CSS file in HTML?	1	K1
c.	How do you declare a variable in JavaScript?	2	K1
d.	What are cookies? How are they used in session tracking?	2	K1
e.	What is a servlet?	3	K1
f.	What is AOP (Aspect-Oriented Programming)?	4	K2
g.	What is Spring Boot?	5	K1

SECTION B**2. Attempt any three of the following:****07 x 3 = 21**

Q no.	Question	CO	Level
a.	Write an HTML form that collects user input (Name, Email, Gender, Country) and submit it.	1	K4
b.	Write a JavaScript function to calculate the factorial of a number.	2	K3
c.	Compare and contrast JSP and Servlets. Where should each be used?	3	K2
d.	Explain the concept of Spring Inversion of Control with an example.	4	K2
e.	Describe the structure of a Spring Boot project.	2	K3

SECTION C**3. Attempt any one part of the following:****07 x 1 = 07**

Q no.	Question	CO	Level
a.	Explain the evolution of the Internet and the World Wide Web.	1	K3
b.	Differentiate between ID and Class selectors in CSS with code examples.	1	K3

4. Attempt any one part of the following:**07 x 1 = 07**

Q no.	Question	CO	Level
a.	Explain the concept of objects in JavaScript. How are properties and methods defined?	2	K2
b.	Write a JavaScript code that handles a button click event and changes the text color of a paragraph.	2	K3



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5. Attempt any *one* part of the following: 07 x 1 = 07

Q no.	Question	CO	Level
a.	Explain session tracking in servlets using Http Session and cookies.	3	K3
b.	Describe the use of scripting elements in JSP with examples.	3	K3

6. Attempt any *one* part of the following: 07 x 1 = 07

Q no.	Question	CO	Level
a.	Explain AOP in Spring. What are the different types of advice?	4	K4
b.	How is annotation-based configuration better than XML configuration in Spring?	4	K4

7. Attempt any *one* part of the following: 07 x 1 = 07

Q no.	Question	CO	Level
a.	Explain how to build and test GET, POST, PUT, and DELETE APIs using Spring Boot.	5	K3
b.	How can you configure logging in a Spring Boot application?	5	K3

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