

<b>Reg. No.</b>																			
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<b>Question Paper Code</b>	<b>13860</b>
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**B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2025**

Seventh Semester

**Computer Science and Engineering (AIML)**

**20AMEL706 - WEB APPLICATION DEVELOPMENT**

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

**PART - A (MCQ) (10 × 1 = 10 Marks)**

Answer ALL Questions

	<i>Marks</i>	<i>K- Level</i>	<i>CO</i>
1. The protocol used to transfer web pages over the internet is _____. (a) HTTP                      (b) FTP                      (c) SMTP                      (d) POP3	1	K1	CO1
2. The id attribute in HTML is used to uniquely identify an _____. (a) Element                      (b) Class                      (c) Section                      (d) Tag	1	K1	CO1
3. JavaScript is an example of _____ scripting. (a) Server-side                      (b) Client-side                      (c) Database-side                      (d) Network-side	1	K1	CO2
4. In JavaScript, the function used to print output to the console is _____. (a) console.log()                      (b) print()                      (c) echo()                      (d) display()	1	K1	CO2
5. Which of the following is a type of data binding in Angular? (a) One Way Binding                      (b) Two Way Binding                      (c) Event Binding                      (d) All of the above	1	K1	CO3
6. Property Binding binds _____ properties to component data. (a) HTML element                      (b) CSS only                      (c) HTTP                      (d) Database	1	K1	CO3
7. The syntax of an XML document starts with the declaration _____. (a) <xml version="1.0">                      (b) <?xml version="1.0"?>                      (c) <xml>                      (d) <!DOCTYPE xml>	1	K1	CO4
8. What happens when a return statement is used inside a for each loop? (a) The loop stops                      (b) It exits the function containing the loop (c) It skips to the next iteration                      (d) It throws an error	1	K1	CO4
9. The _____ method is used to handle HTTP GET requests. (a) doGet()                      (b) doPost()                      (c) init()                      (d) service()	1	K1	CO5
10. XML data can be styled using _____. (a) JavaScript                      (b) CSS                      (c) JSON                      (d) SQL	1	K1	CO6

**PART - B (12 × 2 = 24 Marks)**

Answer ALL Questions

11. Illustrate the functions of a Web Server.	2	K2	CO1
12. List and explain HTML elements.	2	K1	CO1
13. What are the primitive data types in JavaScript?	2	K1	CO2
14. How to create arrays in JavaScript?	2	K1	CO2
15. Explain the purpose of Event Binding in Angular.	2	K2	CO3
16. Differentiate between Property Binding and Event Binding in Angular.	2	K2	CO3
17. Summarize the purpose of a Document Type Definition (DTD) in XML.	2	K2	CO4
18. Mention any two features of JSON.	2	K1	CO4
19. List the use of expressions in JSP.	2	K1	CO5
20. Explain the role of the service () method in a Servlet.	2	K2	CO5
21. Describe any two built-in validation directives.	2	K2	CO6
22. How does AngularJS interact with the DOM?	2	K1	CO6

**PART - C (6 × 11 = 66 Marks)**

Answer ALL Questions

23. a) Explain in detail about HTML5 attributes with examples. 11 K2 CO1
- OR**
- b) Illustrate the CSS Box Model in detail. Explain each component with a diagram and example. 11 K2 CO1
24. a) Discuss the various data types in JavaScript with examples. 11 K2 CO2
- OR**
- b) Develop a JavaScript program to demonstrate the use of the Date object with appropriate examples. 11 K2 CO2
25. a) Demonstrate the importance of using a Front-End Framework in web development. 11 K2 CO3
- OR**
- b) Explain in detail about the Data Binding in Angular. 11 K2 CO3
26. a) Summarize the concept of Namespaces in XML and their uses with examples. 11 K3 CO4
- OR**
- b) Demonstrate the Document Object Model (DOM) in the context of XML. 11 K3 CO4
27. a) Build the life cycle of a Servlet with a neat diagram. 11 K3 CO5
- OR**
- b) Apply steps to connect a Java application with a database using JDBC. 11 K3 CO5
28. a) Explain in detail about ReactJS with its advantages. 11 K2 CO6
- OR**
- b) Describe the DOM manipulation in AngularJS with examples. 11 K2 CO6