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Question Paper Code	13394
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B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2025

Eighth Semester

Artificial Intelligence and Data Science

20AIEL801 - WEB TECHNOLOGY AND MOBILE 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. What is the purpose of JavaScript arrays?	1	K1	CO1
(a) To store numbers only			
(b) To connect to databases			
(c) To store multiple values in a single variable			
(d) To define styles			
2. What does document.getElementById() do in JavaScript?	1	K1	CO1
(a) Changes CSS			
(b) Gets a form			
(c) Finds an HTML element by its ID			
(d) Finds all elements			
3. What does the onclick event in DHTML do?	1	K1	CO2
(a) Changes the style of an element			
(b) Responds when a mouse hovers			
(c) Executes a script when an element is clicked			
(d) Submits a form			
4. Which of the following is a valid XML element?	1	K1	CO2
(a) <1item>			
(b) <_item>			
(c) <item!>			
(d) <item name>			
5. In typical web system architecture, what is the role of the client?	1	K1	CO3
(a) To store databases			
(b) To host the application			
(c) To request and view web content			
(d) To manage DNS			
6. What is required to access a web server using a browser?	1	K1	CO3
(a) A PHP compiler			
(b) A domain name			
(c) An HTML editor			
(d) A Java SDK			
7. What is the main programming language used in Android development?	1	K1	CO4
(a) C++			
(b) Java			
(c) Python			
(d) Swift			
8. Which method is called when an app is first launched?	1	K1	CO4
(a) onStop()			
(b) onCreate()			
(c) onPause()			
(d) onDestroy()			
9. What is an implicit intent used for?	1	K1	CO5
(a) To start a specific component			
(b) To start a background thread			
(c) To request an action without naming a specific component			
(d) To stop a service			
10. Which method is used to receive results from a started activity?	1	K1	CO6
(a) onStopResult()			
(b) onActivityResult()			
(c) onReturn()			
(d) getResult()			

PART - B (12 × 2 = 24 Marks)

Answer ALL Questions

11. What is an Array in JavaScript? Give an example?	2	K1	CO1
12. What is the use of doGet() and doPost() in Servlets?	2	K1	CO1
13. What are events in DHTML?	2	K1	CO2
14. What are the key components of XML?	2	K1	CO2
15. What is Microsoft Personal Web Server (PWS)?	2	K1	CO3
16. How does a browser request a document from a server?	2	K1	CO3
17. Which IDE was originally used for Android development?	2	K1	CO4

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| 18. What is a Preference Activity in Android? | 2 | K1 | CO4 |
| 19. What is the difference between explicit and implicit intents? | 2 | K1 | CO5 |
| 20. How does Android resolve intent filters? | 2 | K1 | CO5 |
| 21. Write a simple XML snippet representing student details. | 2 | K1 | CO6 |
| 22. What is the purpose of DTD in XML? | 2 | K1 | CO6 |

PART - C (6 × 11 = 66 Marks)

Answer ALL Questions

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| 23. a) Explain the major features of HTML5 with examples. | 11 | K2 | CO1 |
| OR | | | |
| b) Differentiate the client-side with the server-side scripting. | 11 | K2 | CO1 |
| 24. a) Explain the concept of DHTML. How does it enhance the user experience of a webpage? | 11 | K2 | CO2 |
| OR | | | |
| b) Enumerate the key components of an XML document. | 11 | K2 | CO2 |
| 25. a) Explain the architecture of a typical web-based system. How do clients interact with servers? | 11 | K2 | CO3 |
| OR | | | |
| b) How is Microsoft Internet Information Services (IIS) used in web development? | 11 | K2 | CO3 |
| 26. a) Apply the state critical in managing for mobile performance of Android Application Lifecycle | 11 | K3 | CO4 |
| OR | | | |
| b) Construct the activity stack mechanism in Android. How does it affect app navigation and performance? | 11 | K3 | CO4 |
| 27. a) Construct Android code snippet to explicitly start a new activity called Second Activity from Main Activity. | 11 | K3 | CO5 |
| OR | | | |
| b) Build intent to send a message from one activity to another and retrieve it in the second activity. | 11 | K3 | CO5 |
| 28. a) Explain the structure of an HTML table with rowspan and colspan. | 11 | K2 | CO6 |
| OR | | | |
| b) Explain how CSS pseudo-classes like :hover and :focus can enhance user experience. | 11 | K2 | CO6 |