Question Paper Code	12574

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Eighth Semester

Artificial Intelligence and Data Science

20AIEL801 - WEB TECHNOLOGY AND MOBILE APPLICATION DEVELOPMENT

Regulations - 2020

Duration: 3 Hours   Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks	K-Level	CO
1.	Write the java script to print "Good Day" using IF-ELSE condition.	2	K1	CO1
2.	List life cycle methods of a Servlet.	2	K1	CO1
3.	Why are attributes used in XML?	2	K1	CO2
4.	What is XML Namespace?	2	K1	CO2
5.	Define Client-Side Scripting and Server-Side Scripting.	2	K1	CO3
6.	What is the role of Apache Web Server in the context of web hosting?	2	K1	CO3
7.	What is Android SDK, and what are its primary components?	2	K1	CO4
8.	What are the IPC mechanisms available in the Android OS?	2	K1	CO4
9.	Differentiate between Intent and Intent Filters.	2	K2	CO5
10.	What is the significance of building apps with Multimedia in Android development?	2	K1	CO5

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

				Marks	K-Level	CO
11.	a)	i)	Illustrate how tables can be inserted into a HTML document with an example.	7	K2	CO1
		ii)	Write Java script to find sum of first n even number and display the result. Get the value of n from user.	6	K2	CO1
			OR			
	b)		Explain the session tracking mechanism using Java servlets.	13	K2	CO1
12.	a)	i)	Develop the Event handling in DOM with suitable examples.	7	K3	CO2
		ii)	Demonstrate how XSLT transforms the document from one (word) type to another type (HTML).	6	K3	CO2
			OR			
	b)		Briefly discuss about XML and DTD. Write a DTD for employee details including employee name (first name and last name), employee ID, Date of Birth (month, date and year) and address (city and state).	13	K3	CO2

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **12574**

13. a) Discuss the importance of ASP (Active Server Pages) in web development. Describe its features, advantages, and integration with Microsoft web servers. Provide examples illustrating the usage of ASP for dynamic web content generation.   13   K2   CO3

OR

b) Write Short notes on the following:-
i) Significance of Microsoft IIS and PWS.   7   K2   CO3
ii) Role of PHP in Server-side scripting.   6   K2   CO3

14. a) Explain the Activity Lifecycle in Android with neat sketch. Discuss the various lifecycle methods and their significance in managing the state of an Activity throughout its lifespan.   13   K2   CO4

OR

b) Explain the SQLite Database class in Android and its role in data storage and management within Android applications, including CRUD operation with suitable code snippet.   13   K2   CO4

15. a) Design a mobile UI to utilize native actions such as sending an SMS message and dialing a number using an Intent.   13   K3   CO5

OR

b) Define Android Localization and design a UI to support Indian regional languages, emphasizing its significance in mobile app development.   13   K3   CO5

PART - C (1× 15 = 15 Marks)

16. a) Write an HTML script which creates a webpage which should display some of the engineering colleges in Tamilnadu in a tabular form with name, address and url of the website of the college. A candidate should select the required department which is listed as listed items from a website.   15   K3   CO6

OR

b) Describe the process of building apps with location-based services and Google Maps integration in Android. Discuss the use of location APIs, Google Maps SDK, and geocoding services in developing location-aware applications. Provide examples demonstrating the implementation.   15   K3   CO6