Reg. No. [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

| Question Paper Code | 11633 |

12 JAN 2023

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022
Fifth Semester
Computer Science and Business Systems
20CBEL505 - MOBILE APPLICATION DEVELOPMENT WITH LABORATORY
(Regulations 2020)

Duration: 3 Hours   Max. Marks: 100

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

		Marks, K-Level, CO
1.	Compare and Contrast web and mobile apps.	2,K2,CO1
2.	Name any four mobile platforms.	2,K1,CO1
3.	What are content providers? Give an example.	2,K2,CO2
4.	State the purpose of adapters in Android apps.	2,K1,CO2
5.	What is meant by CallLog? What is the use of it?	2,K1,CO3
6.	Briefly state the purpose of the on Upgrade() method in SQLite.	2,K2,CO3
7.	What are virtual sensors? Give two examples.	2,K2,CO4
8.	Write short notes on Google Maps extensions.	2,K2,CO4
9.	How will you create outlets for UI elements in an iOS app?	2,K1,CO5
10.	What is the use of Storyboards in iOS app development?	2,K2,CO5

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

11. a) With a neat sketch, describe how the mobile application users perceive the mobile user interface design elements.   13,K2,CO1

OR

b) Discuss the key mobile design patterns used in mobile information design.   13,K2,CO1

12. a) What is an intent? Explain the various types of intents and Elaborate on the procedure to broadcast and receive events in Android apps using intents.   13,K3,CO2

OR

b) Describe the creation and usage of Menus and Action Bar items in Android applications using sample code.   13,K3,CO2

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **11633**

13. a) Elaborate the use of Shared Preferences in Android applications. State its advantages.   *13,K2,CO3*

OR

b) Explain about how data storage is managed in SQLite by Android applications.   *13,K2,CO3*

14. a) Give the use of Location manager. Illustrate the technique involved in working with location manager.   *13,K2,CO4*

OR

b) Write an Android application to display the current latitude and longitude of the mobile device. Explain the functions used.   *13,K2,CO4*

15. a) (i) With a neat diagram, elaborate on the components of the iPhone SDK.   *5,K2,CO5*
      (ii) Explain the anatomy of an iOS app.   *8,K2,CO5*

OR

b) Discuss in detail about the steps to create an iOS application using the xCode IDE.   *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Create a Layout model to get the product name and quantity required from the user. Once the "Submit" button is pressed, the stock availability is to be checked and accordingly either the price(total) (or) "Stock not available" is to be displayed. If the user presses "Cancel" button, the page is to be refreshed.   *15,K3,CO2*

OR

b) "Notes"- An application available in android playstore lets the user to type any text. When a user presses "Save" button (or) when he leaves the app, the data is to be written to the SD card available in mobile. Develop an android application to simulate this event.   *15,K3,CO3*