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Question Paper Code	12469
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B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023

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

- | | <i>Marks,
K-Level, CO</i> |
|---|-------------------------------|
| 1. What is Mobile Applications? | <i>2,K1,CO1</i> |
| 2. State the difference between web apps and mobile apps. | <i>2,K2,CO1</i> |
| 3. Define Android Emulator. | <i>2,K1,CO2</i> |
| 4. Write the features of Android OS. | <i>2,K1,CO2</i> |
| 5. How to create a Database in SQLite. | <i>2,K1,CO3</i> |
| 6. Define Content Provider. | <i>2,K1,CO3</i> |
| 7. What is location based services in Android? | <i>2,K1,CO4</i> |
| 8. Define Sensors. | <i>2,K1,CO4</i> |
| 9. List out the commonly accessed ios tools. | <i>2,K1,CO5</i> |
| 10. Define Accelerometer. | <i>2,K1,CO5</i> |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

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| 11. a) (i) Explain about common myths of mobile application in detail. | <i>8,K2,CO1</i> |
| (ii) Explain Mobile app marketing in detail. | <i>5,K2,CO1</i> |
| OR | |
| b) Briefly explain Various types of Mobile platforms used for mobile application. | <i>13,K2,CO1</i> |
| 12. a) (i) Explain in detail about Android architecture with neat diagram. | <i>10,K2,CO2</i> |
| (ii) Define Layout. Explain different types of Layout. | <i>3,K2,CO2</i> |
| OR | |
| b) Define Notification. Explain the steps to create and send Notification with suitable example. | <i>13,K2,CO2</i> |

13. a) Explain in detail about Internal and external storage with example. *13,K2,CO3*
- OR**
- b) (i) Demonstrate a simple Android application to display a toast message: "Hello how are you today!!" (Write a JAVA Code) *5,K2,CO3*
(ii) Explain content provider with neat architecture diagram. *8,K2,CO3*
14. a) Explain in detail about the types of sensors and illustrate how one can listen to sensor readings with an example. *13,K2.CO4*
- OR**
- b) (i) Explain in detail about Android Bluetooth communication. *8,K2,CO4*
(ii) Explain how to play audio using Media player. *5,K2.CO4*
15. a) Explain in detail about Objective C with an example. *13,K2,CO5*
- OR**
- b) (i) Discuss in detail about UI elements to be used to develop an iOS application. *8,K2,CO5*
(ii) Explain about iOS features and Tools used in iOS. *5,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) (i) Illustrate the steps involved in building camera application in android with example. *8,K2,CO4*
(ii) Explain how to create a Native iOS application. *7,K2,CO5*
- OR**
- b) (i) Demonstrate a mobile application that uses GPS location information. *7,K2,CO4*
(ii) How do we access SQLite using iOS Mobile application and explain with suitable application. *8,K2,CO5*