

B.E/B.TECH DEGREE EXAMINATIONS: NOV/DEC 2024

(Regulation 2018)

Fifth Semester

COMPUTER SCIENCE AND ENGINEERING

U18CSI5205: Mobile Application Development using Android

COURSE OUTCOMES

CO1: Explain mobile application development and android development environment

CO2: Design app user interface

CO3: Describe Mobile Databases

CO4: Explain programming with different sensors.

CO5: Explain different wireless network programming in android

CO6: Explain testing and distribution of mobile applications

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

(Answer not more than 40 words)

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|--|-----|-------------------|
| 1. Illustrate core building block of android. | CO1 | [K ₂] |
| 2. Explain android execution process. | CO1 | [K ₂] |
| 3. Differentiate Relative layout and linear layout. | CO2 | [K ₂] |
| 4. Recall Grid view with an illustration. | CO2 | [K ₁] |
| 5. Define service and how it is used in app development. | CO3 | [K ₁] |
| 6. Identify four functions available in the cursor class to retrieve the data. | CO3 | [K ₃] |
| 7. Illustrate the classification of sensors. | CO4 | [K ₂] |
| 8. Explain how to manage and Monitor Wi-Fi in android. | CO5 | [K ₂] |
| 9. Explain the use of Junit. | CO6 | [K ₂] |
| 10. Summarize the concept of versioning and signing. | CO6 | [K ₂] |

Answer any FIVE Questions:-

PART B (5 x 16 = 80 Marks)

(Answer not more than 400 words)

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|---|---|-----|-------------------|
| 11. a) Illustrate the architecture of android and explain about its components. | 8 | CO1 | [K ₂] |
| b) Refer to the below UI to develop android code to add two number. Write the relevant layout code and java code. | 8 | CO1 | [K ₂] |

12. Explain threads. Develop android code to demonstrate asyncTask implementation to download an image file with relevant layout and java code. 16 CO2 [K₃]
13. Refer to the below image to develop the app to perform CRUD operation for student database write the relevant layout and java code. 16 CO2 [K₂]

14. a) Explain the feature of SQLite database with its functional feature in android. 8 CO3 [K₂]

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|--------|---|----|-----|-------------------|
| b) | Discuss about enterprise data access via Internet and Intranet in android. | 8 | CO3 | [K ₂] |
| 15. | Write android java code to explain the use of accelerometer and proximity sensor. | 16 | CO4 | [K ₂] |
| 16. a) | Write android java code for creating Wi-Fi Configurations. | 8 | CO5 | [K ₂] |
| b) | Discuss about android testing framework and explain how to distribute app to the marketplace. | 8 | CO6 | [K ₂] |
