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18CS651

Sixth Semester B.E. Degree Examination, June/July 2024 Mobile Application Development

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is Android? Explain Android architecture and its components. (08 Marks)
- b. Explain development process of android application with neat diagram and also explain the importance of Manifest and Gradle file. (08 Marks)
- c. What are the challenges faced in app development? (04 Marks)

OR

- 2 a. What is an Activity? Explain activity life cycle with a neat diagram. (08 Marks)
- b. What is an Intent? Explain the types of Intents with example. (08 Marks)
- c. Explain the Model View Presenter (MVP) architecture. (04 Marks)

Module-2

- 3 a. How to create raised and flat button? Explain. Also mention three stages of each button. (08 Marks)
- b. List the different of Menus. Explain any two Menus in detail. (07 Marks)
- c. What is RecyclerView? Explain its components. (05 Marks)

OR

- 4 a. What is drawable? Explain the types of drawables. (06 Marks)
- b. What is spinner? How to create the spinner and its adapter? (08 Marks)
- c. What is Material design? Explain colors, Typography, Layout, Motion with respect to Material design. (06 Marks)

Module-3

- 5 a. What is Service? Explain service life cycle with callback methods. (06 Marks)
- b. Write a short notes on:
 - i) UI Thread
 - ii) Broadcast Intent
 - iii) Async Task
 - iv) Broadcast Receiver(10 Marks)
- c. Explain elapsed real-time alarms and real time clock alarms. (04 Marks)

OR

- 6 a. What are Notifications? Explain optional components with notification. (08 Marks)
- b. Explain wireless radio state in transferring data from one device to another. (06 Marks)
- c. How to create broadcast receivers? Explain static and dynamic registration with examples. (06 Marks)

Module-4

- 7 a. How to create, save, restore and clear shared preferences? Explain with an example. (08 Marks)
- b. Explain with an example, the implementation of SQLite database. (08 Marks)
- c. Write a short notes on:
- Cursor
 - Insert(), delete() update database operation. (04 Marks)

OR

- 8 a. Explain content provider with application architecture diagram. (08 Marks)
- b. Explain the steps required to implement a Cursor loader with examples. (08 Marks)
- c. Write a short notes on:
- URI scheme
 - MIME type (04 Marks)

Module-5

- 9 a. Explain the different best practices for security. (08 Marks)
- b. Explain four types of monitors that measure the performance of an android app. (06 Marks)
- c. What are permissions? Explain its types. (06 Marks)

OR

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- 10 a. What is an APK? What are the things required to do before generating APK in android studio? (10 Marks)
- b. Write short notes on:
- AdMOB
 - Firestore Realtime Database
 - Fire base Analytics. (10 Marks)

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