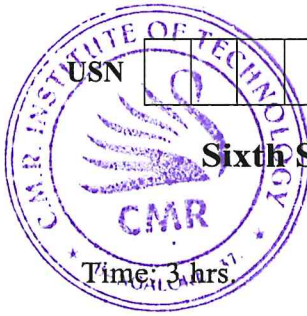


CBCS SCHEME

17CS661



Sixth Semester B.E. Degree Examination, July/August 2022 Mobile Application Development

Max. Marks: 100

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

Module-1

- 1 a. Explain the development process of android with neat diagram. Also explain the importance of manifest and gradle files. (10 Marks)
- b. Explain Activity Life Cycle with a neat diagram. Also explain the different callback methods used in activity life cycle with coding snippet. (10 Marks)

OR

- 2 a. List the Android App Components. Explain Activity Component. (06 Marks)
- b. What are intents? Explain the types of intents with example. (06 Marks)
- c. Explain the process of debugging. Define testing. Explain the types of tests. (08 Marks)

Module-2

- 3 a. Define input control. Explain different types of Button and its states. (08 Marks)
- b. How to create raised button and flat button? (05 Marks)
- c. Explain Recycle View Components in detail. (07 Marks)

OR

- 4 a. What is a drawable? Explain several types of drawables. (06 Marks)
- b. What is a material design? Explain colors typography, layout, motion, animation with respect to material design. (08 Marks)
- c. Define testing. Explain Manual Testing and Automated Testing. (06 Marks)

Module-3

- 5 a. Explain the background processing in Android using AsyncTask and Loader framework with example. (10 Marks)
- b. What is a service? Explain the Service Life Cycle of Started Service and Bound Service with neat diagram. (10 Marks)

OR

- 6 a. Explain the two ways of registering / to broadcast receiver. (06 Marks)
- b. Define notification. Explain the steps involved in creating and settling notification. (06 Marks)
- c. Define Alarms. Explain the two types of alarms and characteristics of alarms. (08 Marks)

Module-4

- 7 a. What are the data storage options? How to create, save, restore and clear shared preferences? Explain with example. (10 Marks)
- b. Write short notes on:
 - (i) SQL database
 - (ii) SQLite
 - (iii) Transactions
 - (iv) Query Language
 - (v) Cursors(10 Marks)

OR

- 8 a. What is content provider and content resolver? Explain the application architecture with content provider with the help of diagram. (10 Marks)
- b. Explain Loader Architecture with neat diagram. Also explain the steps required to implement a cursor loader with example. (10 Marks)

Module-5

- 9 a. Explain the various ways to monitor and maximize performance of running app. (06 Marks)
- b. With an example, explain firebase real-time database and how the data stored in it? (07 Marks)
- c. Define permission and explain its types and needs. (07 Marks)

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OR

- 10 a. What is an APP? What are the things required to do before generating APK in Android Studio? (10 Marks)
- b. Explain the tasks involved in publishing the app in Google Play Store. (10 Marks)

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