

CBCS SCHEME

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15CS661

Sixth Semester B.E. Degree Examination, July/August 2021 Mobile Application Development

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions.

- 1 a. List and explain the challenges faced in Android app development. (06 Marks)
b. What are different attributes set required for linear layout? Explain. (06 Marks)
c. What are intents? Explain the types of intents in Android. (04 Marks)
- 2 a. What is activity life cycle? Explain with diagram and call back methods that support activity life cycle. (10 Marks)
b. What is break point? Explain its usage in android app. (06 Marks)
- 3 a. Explain how to make the buttons. How do you design the raised buttons? (08 Marks)
b. What is a Menu? List out the types of menus. Explain implementation of app bar and options. (08 Marks)
- 4 a. Explain hierarchical navigation patterns with an example. (06 Marks)
b. What is recycler view? Explain the components of recycler view. (10 Marks)
- 5 a. List out the limitations of AsyncTask. (06 Marks)
b. What is Broadcast Receiver? How do you create Broadcast Receiver? (06 Marks)
c. What is an AlarmManager? Explain when not to use Alarm. (04 Marks)
- 6 a. Define JobScheduler. Explain the components of JobScheduler. (08 Marks)
b. Explain the Service Life Cycle of started service versus bound services with diagram. (08 Marks)
- 7 a. How do you crate, save and restore the shared preferences files? Explain. (08 Marks)
b. How do you listen for a setting change? Explain the steps with example code. (08 Marks)
- 8 a. What is a cursor? Explain cursor classes and methods. (08 Marks)
b. List and explain LoaderManager.LoaderCallbacks methods. (08 Marks)
- 9 a. Define permissions. Explain how to request permissions. How do you grant and revoke permissions? (08 Marks)
b. Explain the Security Best Practices. (08 Marks)
- 10 a. What is Firebase Realtime database? How data is stored, get and set? Explain. (08 Marks)
b. What is an APK? How do you prepare app for release? Explain. (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.