GBGS SGHEME

USN				CMRIT LIBRARY	15CS661
				SALE AND ALL THE SALE A	

BANGALORE - 560 037 Sixth Semester B.E. Degree Examination, June/July 2018 Mobile Application Development

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- What is Android? Discuss why to develop apps for android and list atleast 4 latest android 1 versions with their names and supported API levels. (06 Marks)
 - Explain with a neat diagram the android development architecture. (06 Marks)
 - Justify the need for AndroidManifest.xml and write the basic structure for the same.

(04 Marks)

OR

- Discuss views in android and list the predefined views in android system. (06 Marks)
 - Elaborate on the resource file in android system (contents of res directory). (06 Marks)
 - Write Xml program to create an activity with Linear Layout and vertical orientation with the following views/UI elements in it.
 - 2 Text views: One to display Login ID and other to display password. (i)
 - 2 Edit Text: One to accept login ID and other to accept password
 - (iii) 2 Buttons: One for login with Onclick attribute and other to cancel.

(04 Marks)

Module-2

- Define intent. Discuss types of intents and explain in detail how to pass data between 3 (06 Marks) activities with intent.
 - With neat diagram explain the activity life cycle and life cycle callback methods. (06 Marks)
 - Demonstrate with an example program how to start an activity for getting results using (04 Marks) intents.

OR

- Differentiate between option menu and contextual menu. Explain how to create option menu with necessary call back methods using an example program. (06 Marks)
 - List and explain the steps involved in creating contextual action bar menu. (06 Marks)
 - Explain how to share data in your app with social networks and other apps using (04 Marks) ShareCompat.IntentBuilder

Module-3

- Judge with suitable reasoning why it is important to process some tasks in the background or 5 (06 Marks)
 - b. Discus the use of AsyncTask to create background processing with necessary call back (06 Marks) methods.
 - Discuss the limitations of AsyncTask.

(04 Marks)

CMRIT LIBRARY BANGALORE - 560 03

- What are broadcast receivers? Explain how to create broadcast receiver with an example (06 Marks) program.
 - Describe how to do static and dynamic registration of custom broadcast. (06 Marks) b. (04 Marks)
 - Distinguish between started services and bounded services.

Module-4

- Design and develop a simple app which stores the key-value pair using shared preferences [.xml and .java files has to be written]. (06 Marks)
 - Explain processing of cursors in SQliteDB with an example program segment. (06 Marks)
 - List and explain the call back methods of SQLiteOpenHelper class. (04 Marks)

OR

- Explain the relationship between content provider and content resolver with a neat diagram. 8
 - (06 Marks)
 - List the components/items required to implement content provider. (06 Marks)
 - Suggest the required permission in AndroidManifest xml to make content provider visible (04 Marks) and available to other apps.

Module-5

- Discuss android permission with example. (06 Marks) Explain how to monitor the performance of running app. (06 Marks)
 - Explain how to make app secure user data safely.

OR

- Discuss Google Firebase database and its structure. 10
 - Explain Google firebase push notifications. b.
 - Explain how to generate the signed APK for release

(06 Marks)

(04 Marks)

(06 Marks)

(04 Marks)

