

# CBCS SCHEME

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15CS661

Sixth Semester B.E. Degree Examination, Dec.2018/Jan.2019

## Mobile Application Development

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. What is android? Explain android stack (Android development architecture) with diagram. (08 Marks)  
b. Explain different types of layouts. (08 Marks)

OR

- 2 a. Explain activity states and lifecycle callback methods. (10 Marks)  
b. Write the features of android support library. (06 Marks)

### Module-2

- 3 a. Name the different types of input controls, write XML code for button. (08 Marks)  
b. What is drawable? Explain any three types of drawables. (08 Marks)

OR

- 4 a. Briefly explain different types of menus with example. (08 Marks)  
b. What is RecyclerView? Mention the implementation steps of RecyclerView. (08 Marks)

### Module-3

- 5 a. What is AsyncTask? Explain execution steps of AsyncTask. (08 Marks)  
b. What is service? Explain service life cycle with comparison between started and bound service with diagrams. (08 Marks)

OR

- 6 a. Explain system broadcast intents and custom broadcast intents. (08 Marks)  
b. Explain wireless radio states with diagram. (08 Marks)

### Module-4

- 7 a. Explain internal and external storage. (10 Marks)  
b. Briefly explain content provider and content resolver. (06 Marks)

OR

- 8 a. Explain creating, saving, restoring and clearing of shared preferences. (10 Marks)  
b. What are loaders? Write the characteristics of loaders. (06 Marks)

### Module-5

- 9 a. Explain permissions with examples. (08 Marks)  
b. What is Firebase? Write the steps to get started with Firebase. (08 Marks)

OR

- 10 a. What is APK? What has to be done before creating APK, to make your app successful? (08 Marks)  
b. Explain security best practices. (08 Marks)

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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.