

**MCA Sem.-3 Examination**  
**Mobile Application Development**  
**December-2025**

Time : 3.00 Hours]

[Max.Marks :50

**Instructions:**

- Write both the Sections in the separate answer book.
- Both Sections have equal weightage.
- Draw Diagrams wherever necessary.
- Make Assumptions wherever necessary.

**SECTION – I**

- Q-1 Explain the following terms with an appropriate example: 9 Marks
1. What is Android? Briefly explain its history and development.
  2. What is an Intent? Describe its types with examples.
  3. What is an Android layout? List common types of layouts in Android.
- Q-2 Attempt the following: 8 Marks
1. Explain the Android activity lifecycle.
  2. What is the significance of the AndroidManifest.xml file?
- OR**
- Q-2 Attempt the following: 8 Marks
1. What are the four main components of an Android app? Explain each with examples.
  2. What is a service in Android, and how does it differ from an activity?
- Q-3 Attempt the following: 8 Marks
1. Explain the difference between internal and external storage in Android.
  2. What is the MediaPlayer API, and how is it used to play audio and video?
- OR**
- Q-3 Attempt the following: 8 Marks
1. What is the LocationManager API used for in Android development?
  2. How do you read and write data to SharedPreferences? Explain with an example?

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**SECTION – II**

- Q-4 Explain the following Terms with an appropriate example. 9 Marks
1. Toast
  2. AlertDialog
  3. SensorManager
  4. Cursor
  5. Spinner
  6. DVM
  7. Progress Dialog
  8. Button
  9. ScrollView

- Q-5 Attempt the following: 8 Marks
1. Write the significance of onCreate() and onUpgrade() methods of SQLiteOpenHelper class.
  2. Write the significance and syntax of update() and delete() of SQLiteDatabase class.

**OR**

- Q-5 Attempt the following: 8 Marks
1. Describe the usage of the SMSManager class in Android.
  2. Define Tween Animation in Android. Discuss its types, such as Alpha, Scale, Translate, and Rotate, with use cases.

- Q-6 Attempt the following: 8 Marks
1. What is Drawable Animation in Android? How do you create frame-by-frame animation using XML?
  2. Explain the Network API and write a code snippet for checking the network connection.

- Q-6 **OR** 8 Marks
- Attempt the following:
1. Explain the concept of JSON parsing with an appropriate example.
  2. Explain the Android architecture layers with a neat diagram.

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