

Enrolment No./Seat No.:

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**M.SC INTEGRATED - SEMESTER - VI EXAMINATION - SUMMER 2025**

**Subject Code: 1360301**

**Date: 08-05-2025**

**Subject Name: Mobile Application Development**

**Time: 10:30 AM TO 01:00 PM**

**Total Marks: 70**

**Instructions**

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

	<b>Marks</b>
<b>Q.1 (a)</b> Define Intent in Android. Provide an example.	<b>03</b>
<b>(b)</b> Compare and contrast LinearLayout and RelativeLayout.	<b>04</b>
<b>(c)</b> Develop a simple Android application that uses two activities and passes data between them	<b>07</b>
<b>Q.2 (a)</b> What is an AdapterView? Give an example.	<b>03</b>
<b>(b)</b> Explain how external storage differs from internal storage.	<b>04</b>
<b>(c)</b> Discuss various types of animations in Android. Provide code examples.	<b>07</b>
<b>OR</b>	
<b>(c)</b> Write a complete code snippet to create and use an SQLite database.	<b>07</b>
<b>Q.3 (a)</b> Define Content Provider in Android.	<b>03</b>
<b>(b)</b> How is screen orientation handled in Android?	<b>04</b>
<b>(c)</b> Explain Android Activity lifecycle with a diagram.	<b>07</b>
<b>OR</b>	
<b>(a)</b> Explain the use of AutoCompleteTextView.	<b>03</b>
<b>(b)</b> How can you invoke built-in applications using intents?	<b>04</b>
<b>(c)</b> Explain how to implement Fragment in an Android app with a practical example.	<b>07</b>
<b>Q.4 (a)</b> What is the purpose of the Android Emulator?	<b>03</b>
<b>(b)</b> How is animation implemented in Android using XML?	<b>04</b>
<b>(c)</b> Design a login form using EditText, Button and Toast message on successful login.	<b>07</b>
<b>OR</b>	
<b>(a)</b> What is SQLite in Android?	<b>03</b>
<b>(b)</b> How do you display a Google Map in an Android application?	<b>04</b>
<b>(c)</b> How do you create and use custom views in Android?	<b>07</b>

- Q.5 (a)** What is the role of the AndroidManifest.xml file in an Android application? **03**
- (b)** Explain how to draw custom shapes using ShapeDrawable. **04**
- (c)** What are RecyclerView and Adapter in Android? How do they improve list performance? **07**

**OR**

- (a)** What is the use of findViewById() method? **03**
- (b)** Explain how to store and retrieve data using internal storage in Android. **04**
- (c)** Write a code snippet to perform basic CRUD operations in SQLite and explain database integrity. **07**

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