

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION – SUMMER 2025

Subject Code:3170726

Date:23-05-2025

Subject Name: Mobile Application Development

Time:02:30 PM TO 05:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

MARKS

Q.1	(a) What is SDLC?	03
	(b) Explain types of Intent with a suitable example.	04
	(c) Explain Linear Layout, Relative Layout, Frame Layout with proper example.	07
Q.2	(a) What is ScrollView and ListView? Explain one with a suitable example.	03
	(b) Differentiate between Flowchart and DFD.	04
	(c) Draw and explain the Activity lifecycle of an Android application in detail.	07
	OR	
	(c) Explain Android architecture with proper diagram.	07
Q.3	(a) Explain Checkbox in Android with example.	03
	(b) Explain the importance of AndroidManifest.xml file.	04
	(c) Write a code to insert product information (p_id, p_name, p_category, p_price,p_qty) in a SQLite database.	07
	OR	
Q.3	(a) Enlist and define types of Menus in Android.	03
	(b) Write code to display “Hello World” toast message on button click.	04
	(c) Write the significance and syntax of the update() and delete() methods of the SQLite Database class.	07
Q.4	(a) Briefly explain AsyncTask loader.	03
	(b) Explain Internal Vs. External storage.	04
	(c) Explain Animation and its types in Android. Explain one in brief.	07
	OR	
Q.4	(a) Explain Shared Preferences.	03
	(b) What is the use of Content Provider?	04
	(c) Write an Android program with a suitable login page with database connectivity.	07
Q.5	(a) What is Broadcast Receiver? How to add it in an Android app.	03
	(b) Discuss (i)Logcat (ii)ADB.	04
	(c) What is Media Player in Android? Explain how to play audio using Media Player.	07
	OR	
Q.5	(a) What is parsing? Discuss how you can perform parsing using JSON in an Android application.	03
	(b) Write steps to publish Android Application on Play store.	04
	(c) Write a code to take a photo from the camera and store the photo in the MYAPP folder of the SD card.	07
