

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2022****Subject Code:3170726****Date:07-01-2023****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.
4. Simple and non-programmable scientific calculators are allowed.

		Marks
Q.1	(a) Explain Versions in android.	03
	(b) Differentiate between Flowchart and DFD.	04
	(c) Draw and explain Activity lifecycle of android application in detail.	07
Q.2	(a) Explain about the Android manifest.xml file.	03
	(b) Write difference between Table Layout and Frame Layout.	04
	(c) Write a brief note on android Architecture with proper diagram.	07
	OR	
	(c) Explain Intent and Fragment in details.	07
Q.3	(a) How to use Spinner in android application.	03
	(b) Explain Content provider.	04
	(c) List out UI components of android application. Explain any three in brief.	07
	OR	
Q.3	(a) What is BroadCast Receiver? How to add it in android app.	03
	(b) Explain Material design.	04
	(c) Write a note on different Permissions in android.	07
Q.4	(a) Discuss how you can perform parsing using JSON in android application.	03
	(b) Write a code to insert Employee details (eid, ename, eaddress, edesignation) in SQLite database.	04
	(c) Write the steps for CRUD operation to use Firebase database in android application.	07
	OR	
Q.4	(a) Briefly explain AsyncTask loader.	03
	(b) Write a code to insert product information (pid, pname, pcategory, pprice) in SQLite database.	04
	(c) Explain Animation and its types in android. Explain any one in details.	07
Q.5	(a) Explain GeoCoding and ReverseGeoCoding.	03
	(b) Discuss about ADB.exe tool and Web Server.	04
	(c) Write a code to get current location & display it in text view.	07
	OR	
Q.5	(a) Explain Background Services.	03
	(b) Explain about the entire process to publish any android application.	04
	(c) Write a code to take picture with camera and display current date time with it using android application.	07
