

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – SUMMER 2024****Subject Code:3170726****Date:30-05-2024****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) Explain Dalvik Virtual Machine (DVM) in detail.	03
	(b) Define the components of Android Application.	04
	(c) List out layouts in Android Application. Explain three in brief.	07
Q.2	(a) Define spinner in Android.	03
	(b) Write code to display toast message on button click.	04
	(c) Explain Recycler View and Card View in android with example.	07
	OR	
	(c) List out UI Components in Android Application. Explain three in brief.	07
Q.3	(a) Define View and View Group in Android.	03
	(b) Differentiate Relative Layout and Frame Layout.	04
	(c) Write the steps for CRUD operation to use Firebase database in android application	07
	OR	
Q.3	(a) Explain Web View and its attributes.	03
	(b) Define Menu and its types in Android.	04
	(c) Write code to insert student details (sid, sname, sbranch, smobile, saddress) in SQLite database.	07
Q.4	(a) Describe shared preference with example.	03
	(b) Explain Run time permission in Android with example. Write runtime permission to access functionalities like Contact, Camera and Bluetooth.	04
	(c) Explain Animation and its types in Android. Explain one in brief.	07
	OR	
Q.4	(a) Define NOSQL database and how it is differ from relational database.	03
	(b) Differentiate Internal Storage and External Storage.	04
	(c) Write program to get user current location and display in Text View.	07
Q.5	(a) Explain Background Services.	03
	(b) Write steps to publish Android Application on Play store.	04
	(c) Write code to take picture with camera and store into Gallery.	07
	OR	
Q.5	(a) Define Broadcast Receiver and Notification service in Android.	03
	(b) Explain Dalvik debug tool and ADB in Android.	04
	(c) Explain Accelerometer Sensor & Gyroscope in Android.	07
