

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE – SEMESTER- VII EXAMINATION-SUMMER 2023**

**Subject Code: 3170726**

**Date: 30/06/2023**

**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

		<b>MARKS</b>
<b>Q.1</b>	(a) What are the JVM and DVM? Explain DVM in details.	<b>03</b>
	(b) Describe how to publish Android Application on Google Play.	<b>04</b>
	(c) List various layouts available in Android. Explain any two out of that.	<b>07</b>
<b>Q.2</b>	(a) What is ScrollView and ListView? Explain anyone with suitable example.	<b>03</b>
	(b) Explain Android architecture with proper diagram.	<b>04</b>
	(c) Write a code to send data from one activity to another activity using implicit intent	<b>07</b>
<b>OR</b>		
	(c) Write a code to send SMS from Android App using the concept of explicit intent.	<b>07</b>
<b>Q.3</b>	(a) What you mean by fragment in Android? Explain fragment with an example.	<b>03</b>
	(b) What is the use of Content Provider?	<b>04</b>
	(c) Write all necessary code to print all the files stored in Music folder of SD card	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) What is use of Manifest file?	<b>03</b>
	(b) What is Shared Preference.? Explain with and example.	<b>04</b>
	(c) Write all necessary code to take photo from Camera and store photo in MYAPP folder of SD card	<b>07</b>

- Q.4** (a) Explain the concept of AsyncTask with an example. **03**
- (b) List and explain different types of menu in android. **04**
- (c) How to add notification in Android App? Explain with an example. **07**

**OR**

- Q.4** (a) What is the use of Broadcast Receiver? How to add it in Android App? **03**
- (b) Explain Recycler View with example. **04**
- (c) Write an android program with suitable for login page with database connectivity. **07**
- Q.5** (a) What is parsing? Discuss how you can perform parsing using JSON in Android application **03**
- (b) Write an android application that will display toast (Message) on specific interval of time. (write java code) **04**
- (c) Write the significance and syntax of update() and delete() of SQLiteDatabase class **07**

**OR**

- Q.5** (a) What is web services? How it integrates and implements in industrial projects? **03**
- (b) Write a code to play music on click on button. **04**
- (c) Write a code to insert EventDetails (eID, eName, eDate,EVenue) in SQLite database using Android App. **07**