GUJARAT TECHNOLOGICAL UNIVERSITY
M.SC(CS)- INTEGRATED– SEMESTER VI- EXAMINATION –SUMMER-2024

Subject Code: 1360301　　　　　　　　　　**Date: 25/04/2024**
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. **Use of simple calculators and non-programmable scientific calculators are permitted.**

Q.1	**(a)**	What is Service? Differentiate between Activity and Service.	**03**
	(b)	Design application to display Google map with current location.	**04**
	(c)	What is Fragment? Draw and explain the lifecycle of a Fragment.	**07**
Q.2	**(a)**	Describe Android and importance of OHA.	**03**
	(b)	Explain the steps to install and configure Android Studio and SDK.	**04**
	(c)	Explain different types of menus in android with example	**07**
		OR	
	(c)	Describe the role of publisher in android application development.	**07**
Q.3	**(a)**	Write a short note on Geocoding.	**03**
	(b)	Define SQLite. Explain example table for SQLite store data in tables.	**04**
	(c)	Write a note on different Permissions in android.	**07**
		OR	
Q.3	**(a)**	Expalin in Brief Hardware Acceleration.	**03**
	(b)	What are the benefits of Content providers?	**04**
	(c)	Write a program to draw a route between two locations.	**07**
Q.4	**(a)**	Explain service Lifecycle with neat diagram.	**03**
	(b)	Write a code to insert Employee details (eid, ename, eaddress, edesignation) in SQLitedatabase.	**04**
	(c)	Write a program to insert data in SQLite database using AsyncTask.	**07**
		OR	
Q.4	**(a)**	What is parsing? Discuss how can you perform parsing using JSON in Android application.	**03**
	(b)	Write code to display Toast Message on click of close Button.	**04**
	(c)	Explain Intent and Fragment in details.	**07**
Q.5	**(a)**	Explain the use of Broadcast Receiver in Android	**03**
	(b)	What is Layout? What are the advantages of setting a Layout?	**04**
	(c)	Write a code for create the Application for Fashion Show with Product Details.	**07**
		OR	
Q.5	**(a)**	Explain Checkbox in Android with example.	**03**
	(b)	Explain in Brief Persistent Storage Architecture.	**04**
	(c)	Write the code for inserting and delete startup records with SQLite Database.	**07**