Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VI (NEW) EXAMINATION – WINTER 2023

Subject Code:3161612   **Date:07-12-2023**
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.**

Q.1	**(a)**	Explain DVM.	**03**
	(b)	State the significance of Android Manifest file?	**04**
	(c)	Define Activity and Activity lifecycle. Draw and mention the significant role of each state.	**07**
Q.2	**(a)**	Discuss Fragments in Android?	**03**
	(b)	What is AVD? Explain the process of creating AVD in Android application development.	**04**
	(c)	What is Android? Explain Android Architecture with neat diagram.	**07**
		OR	
	(c)	Define Intent. Classify types of Intent with examples.	**07**
Q.3	**(a)**	Write about ToggleButton in Android.	**03**
	(b)	What are the orientation modes of available in Android?	**04**
	(c)	List out various layouts available in Android. Explain any one with xml code file.	**07**
		OR	
Q.3	**(a)**	Discuss an OnClickListener event Listener in Android?	**03**
	(b)	How to use spinner in Android App? Explain with an example.	**04**
	(c)	Write code to display Toast Message "Welcome to Android" on click of a Button.	**07**
Q.4	**(a)**	What are the different ways to store Data in Android?	**03**
	(b)	Give brief idea about Internal versus External storage.	**04**
	(c)	Write a code to insert into product_detail (prod_id, prod_name, prod_rate) in SQLite database using Android.	**07**
		OR	
Q.4	**(a)**	What is Google Maps API?	**03**
	(b)	Differentiate Geocoding and Reverse Geocoding?	**04**
	(c)	List down the Advantage and Disadvantage of SQLite Database.	**07**
Q.5	**(a)**	Explain Graphics in Android?	**03**
	(b)	List and discuss types of Drawable in detail.	**04**
	(c)	Write different types of view animation. Explain with example.	**07**
		OR	
Q.5	**(a)**	What is SoundPool?	**03**
	(b)	What is Camera API?	**04**
	(c)	Explain process of publishing an android application.	**07**

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