Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

	D	E CEMECTED VII (NEW) EVAMINATION CHIMMED 202	
g 1 •		E - SEMESTER-VII (NEW) EXAMINATION – SUMMER 202	
•			6/06/2022
•		me:Mobile Application Development	
		PM TO 05:00 PM Total N	Marks: 70
Instruc			
		tempt all questions.	
		ake suitable assumptions wherever necessary.	
		gures to the right indicate full marks.  nple and non-programmable scientific calculators are allowed.	
	. 511	inpic and non-programmable setembre carculators are anowed.	MARKS
0.1	(a)	Differentiate between JVM and DVM.	03
Q.1	(a)		03
	(b)	Enlist and define the components of android application.	
	(c)	Describe the Android architecture with neat diagram in detail.	07
Q.2	(a)	What is Toast? Explain How to customize it?	03
	<b>(b)</b>	What is AndroidManifest.xml? Write its usages with example.	04
	(c)	Explain any four UI Components of Android application.	07
	. ,	OR	
	(c)	Develop a Registration form using android UI components, which take details from user like Name, Email ID, Password, Conform Password, Mobile Number, gender etc On click of register button all details should show on another activity with a welcome message.	07
Q.3	(a)	What is Fragment? Differentiate between Activity and fragment.	03
Q.C	(b)	Discuss the need of permissions in Android. Write the permissions	04
	(8)	required to set system functionalities like Bluetooth, camera, internet.	•
	(c)	What is an Activity? Explain the activity life cycle with all events in detail.	07
		OR	
Q.3	(a)	Enlist and define types of Menus in android.	03
	<b>(b)</b>	Explain the concept of Recycler view. Write down the steps to	04
		implement recycler view in android application.	
	(c)	Define services in Android operating system. Explain service Lifecycle with neat diagram.	07

	(c)	Define services in Android operating system. Explain service Lifecycle with neat diagram.	07
Q.4	(a)	What do you mean by NoSQL? How it is differ from relational database?	03
	<b>(b)</b>	What do you mean by Async task? Explain with example.	04
	(c)	Develop an application to store student details like roll no, name, branch, marks, percentage and retrieve student information using roll no. in SQLite databases.	07
		OR	
<b>Q.4</b>	(a)	Describe the task of Notification Manager in Android.	03

	<b>(b)</b>	Can we use the mobile screen as a Canvas to draw any shapes on it? Write the steps for using Graphics objects in an android application.	04
	(c)	List different types of data storage available in Android. Describe the significance of SQLite database in Android.	07
Q.5	(a)	Describe Tween Animation in android.	03
	<b>(b)</b>	Write a program to locate user's current location. (Write ONLY .java and manifest file)	04
	(c)	What is Media Player in android? Explain how to play audio using Media Player	07
		OR	
Q.5	(a)	List sensors in Android and explain any one in detail.	03
	<b>(b)</b>	Write steps to publishing android applications.	04
	(c)	Write the steps to use firebase database in an android application for CRUID operation.	07

\*\*\*\*\*