Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) EXAMINATION - WINTER 2021

Subje	ect Co	ode:3170726 D	ate:27/12/2021
_		ame:Mobile Application Development 0 AM TO 01:00 PM To	otal Marks: 70
nstruc		UANTIO ULIUUTIVI	Jiai Wai Ks. 70
iibti u		ttempt all questions.	
		lake suitable assumptions wherever necessary.	
		igures to the right indicate full marks.	
	4. Si	imple and non-programmable scientific calculators are allowed.	
Q.1	(a)	What is the use of Android Manifest file?	03
•	(b)	Define: Class, Object, Encapsulation, Inheritance	04
	(c)	Explain Android architecture with proper diagram.	07
Q.2	(a)	What is AVD? Explain the process of creating AVD in A	ndroid 03
		application development.	
	(b)	Explain basic building blocks/components of Android Applic	
	(c)	What is Activity? Draw and explain Activity lifecycle in deta OR	il. 07
	(c)	What is Fragment? Draw and explain the lifecycle of a fragm	ent. 07
Q.3	(a)	What is Layout? What are the advantages of setting a Layout	
	(b)	List out various layouts available in Android. Explain any	
	` ′	detail.	
	(c)	What is an Intent? Explain types of Intent in Android with ex	ample. 07
		OR	
Q.3	(a)	Explain Checkbox in Android with example.	03
	(b)	Write code to display Toast Message on click of Button.	04
	(c)	Explain different types of menus in android with example.	07
Q.4	(a)	Explain the use of Shared Preferences.	03
	(b)	Explain Internal vs. External storage.	04
	(c)	Write a Program for establishing connection with SQLite data	abase. 07
		OR	
Q.4	(a)	What is parsing? Discuss how can you perform parsing using	JSON 03
		in Android application.	
	(b)	Discuss AsyncTask in detail.	04
	(c)	Write Code to insert Contact Details (cID, cName, cPhoneNu	ımber) 07
		in SQLite Database in Android.	
Q.5		How to add notification in Android App? Explain with an ex	•
	(b)	What is Geocoding and Reverse Geocoding? Explain i example.	t with 04
	(c)	Which are the types of animations supported in Android? E	Explain 07
		any one in detail.	
		OR	
Q.5	(a)	Explain the use of Broadcast Receiver in Android.	03
	(b)	What is Service? Discuss various Service life cycle meth	ods in 04
		detail.	. 1 ·
	(c)	How can you publish your application in Google Play Store? E	Explain 07

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	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)	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)	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)	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	
Q.4	(a)	Describe the task of Notification Manager in Android.	03

	(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)	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)	Write steps to publishing android applications.	04
	(c)	Write the steps to use firebase database in an android application for CRUID operation.	07
