

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI(NEW) EXAMINATION – WINTER 2022****Subject Code:3161612****Date:15-12-2022****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.
4. Simple and non-programmable scientific calculators are allowed.

	MARKS
Q.1 (a) What are the advantages of android operating system?	03
(b) List and Explain components of android SDK.	04
(c) Explain the android architecture in detail.	07
Q.2 (a) Explain Android Virtual Devices (AVD).	03
(b) Explain Date and Time picker with its methods.	04
(c) Write both XML code and android program to display a circular progress bar.	07
OR	
(c) Develop the registration form that includes the following data in the GUI.	07

The image shows a registration form with the following fields and a button:

- Enter Name:
- Enter Username:
- Enter Password:
- Repeat Password:
- Register:

Q.3 (a) Explain AndroidManifest.xml file.	03
(b) Explain Linear Layout with attributes.	04
(c) Develop a simple calculator using table layout.	07
OR	
Q.3 (a) Explain drawable resources in android	03
(b) Explain Grid Layout with attributes.	04
(c) What is Listview? Write a java class to add any 10 items within Listview.	07
Q.4 (a) Explain context menu and system menu.	03
(b) Explain Implicit Intent in four points.	04
(c) Write a program to capture an image using camera and display it.	07
OR	
Q.4 (a) Explain Option Menu.	03
(b) Define Dialog in android. Explain Alert Dialog with example.	04

- (c) Develop a program to send an email. **07**
- Q.5** (a) Explain Geocoding and Reverse Geocoding. **03**
(b) Explain Broadcast receiver in details. **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.5** (a) Enlist the steps to publish the Android application. **03**
(b) Explain SQLiteOpenHelper class. **04**
(c) Write a program to locate user's current location. (Write ONLY .java and manifest file) **07**

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