

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI EXAMINATION – SUMMER 2025****Subject Code: 3161612****Date: 26-05-2025****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. Simple and non-programmable scientific calculators are allowed.

MARKS

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|------------|--|-----------|
| Q.1 | (a) Describe DVM in android. | 03 |
| | (b) List and explain android application components. | 04 |
| | (c) What is Activity? Draw and explain Activity lifecycle in detail. | 07 |
| Q.2 | (a) Explain the advantages of using fragment in android. | 03 |
| | (b) What is AVD? How to create AVD in Android Studio? | 04 |
| | (c) What is an Intent? Explain types of Intent in Android with example. | 07 |
| | OR | |
| | (c) Create an android application with login screen. Display appropriate Toast message for successful or unsuccessful login. | 07 |
| Q.3 | (a) Explain linear layout. | 03 |
| | (b) Explain how screen orientation is managed in android. | 04 |
| | (c) Explain ListView using appropriate example. | 07 |
| | OR | |
| Q.3 | (a) Explain relative layout. | 03 |
| | (b) Write short note on content provider. | 04 |
| | (c) Explain RecyclerView in detail using appropriate example. | 07 |
| Q.4 | (a) Describe AsyncTask. | 03 |
| | (b) Explain geocoding and reverse geocoding in android. | 04 |
| | (c) Explain SQLite database using appropriate example. | 07 |
| | OR | |
| Q.4 | (a) Describe Hardware Acceleration in android. | 03 |
| | (b) Explain the usage of SharedPreferences in an android application. | 04 |
| | (c) Write Code to insert Student Details (enrollment, name, branch) in SQLite Database in Android. | 07 |
| Q.5 | (a) Explain Broadcast Receiver. | 03 |
| | (b) Describe steps to publish android application on playstore. | 04 |
| | (c) Explain MediaPlayer using appropriate example. | 07 |
| | OR | |
| Q.5 | (a) Explain Spinner in android. | 03 |
| | (b) Discuss Services in android. | 04 |
| | (c) Explain animation in android using appropriate example. | 07 |
