

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER- VI EXAMINATION – SUMMER 2026

Subject Code:3161612

Date:26-05-2026

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.

- Q.1**
- | | | |
|-----|--|-----------|
| (a) | What are the differences between JVM and DVM? | 03 |
| (b) | List out various layouts available in Android. Explain anyone in detail. | 04 |
| (c) | Explain Android Application Architecture. | 07 |

- Q.2**
- | | | |
|-----|--|-----------|
| (a) | How to use spinner in Android App? Explain with an example. | 03 |
| (b) | Write a Program to move one page to another page using Intent. | 04 |
| (c) | Draw and explain Activity Life Cycle in detail. | 07 |

OR

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|-----|---|-----------|
| (c) | What is manifest file? Discuss applications of manifest file in detail. | 07 |
|-----|---|-----------|

- Q.3**
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|-----|---|-----------|
| (a) | What is parsing? Discuss how you can perform parsing using JSON in Android application. | 03 |
| (b) | What is the use of Broadcast Receiver? How to add it in Android App? | 04 |
| (c) | What is Intent? Explain Explicit vs. Implicit intents with Example. | 07 |

OR

- Q.3**
- | | | |
|-----|---|-----------|
| (a) | State the challenges present in the development of Android application. | 03 |
| (b) | Explain Android Menus in detail. | 04 |
| (c) | Describe how to publish Android Application on Google Play. | 07 |

- Q.4**
- | | | |
|-----|--|-----------|
| (a) | Briefly explain Rating Bar in Android. | 03 |
| (b) | Describe Scroll View & List View? Explain with suitable Program. | 04 |
| (c) | Write a Program store the input information in SQLite Database. | 07 |

OR

- Q.4**
- | | | |
|-----|--|-----------|
| (a) | Write the significance of onCreate () and on Upgrade () methods of SQLiteOpenHelper class. | 03 |
| (b) | How to implement widgets & how it is Use. | 04 |
| (c) | What you mean by fragment in Android? Explain fragment with an example. | 07 |

- Q.5**
- | | | |
|-----|--|-----------|
| (a) | What is Sound Pool? | 03 |
| (b) | Explain Hardware Acceleration. | 04 |
| (c) | Write a Program for select any three subjects out of five using check box or radio button. | 07 |

OR

- Q.5**
- | | | |
|-----|---|-----------|
| (a) | Write a program to convert rupees into dollar currencies. | 03 |
|-----|---|-----------|

- (b) How can you access Content Provider's Data into other applications? Explain with example. **04**
- (c) Write code to Validate Mobile No and email address in Android. **07**
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