

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VI (NEW) EXAMINATION – WINTER 2024

Subject Code:3161612

Date:28-11-2024

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 is the use of string.xml? | 03 |
| (b) | Demonstrate the use of Toast in Android. | 04 |
| (c) | Explain the activity life cycle in android with example. | 07 |

OR

- Q.2**
- | | | |
|-----|--|-----------|
| (a) | What is Service? Differentiate between Activity and Service. | 03 |
| (b) | What are fragments? Explain fragments life cycle. | 04 |
| (c) | Write an android application to display circular progress bar. | 07 |

OR

- (c) Develop a simple calculator using table layout. **07**

- Q.3**
- | | | |
|-----|--|-----------|
| (a) | Explain Android Virtual Devices (AVD). | 03 |
| (b) | Explain any four UI Components of Android application. | 04 |
| (c) | Develop an android application to calculate age (Use Date Picker) using following GUI. | 07 |



OR

- Q.3**
- | | | |
|-----|--|-----------|
| (a) | List different types of views? Explain Scroll view. | 03 |
| (b) | Briefly discuss about ADT Tools. | 04 |
| (c) | Create an android application which displays three buttons on Main Activity named RED, GREEN and BLUE. The background color of the activity should be changed to appropriate color when user clicks on any of these buttons. | 07 |

- Q.4**
- | | | |
|-----|---|-----------|
| (a) | Explain Recording video in android. | 03 |
| (b) | What is intent? Explain the types of intents in android with example. | 04 |
| (c) | Create a user registration application that stores the user details in a SQLite database table. | 07 |

OR

- Q.4**
- | | | |
|-----|---|-----------|
| (a) | Explain media player in android. | 03 |
| (b) | Explain Content Provider with example. | 04 |
| (c) | Develop an alarm application that rings every Monday at 8 AM. | 07 |

- Q.5** (a) Explain android graphics interface. **03**
(b) Explain about saving data to internal and external storage. **04**
(c) Write a program to locate user's current location. **07**
(Write ONLY .java and manifest file)
- OR**
- Q.5** (a) Explain Geocoding and Reverse-Geocoding. **03**
(b) Briefly discuss about deploying APK Files. **04**
(c) Explain the challenges when we use the location based services. **07**
