

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2021****Subject Code:3170726****Date:27/12/2021****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 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 Android application development. **03**
 (b) Explain basic building blocks/components of Android Application. **04**
 (c) What is Activity? Draw and explain Activity lifecycle in detail. **07**

OR

- (c) What is Fragment? Draw and explain the lifecycle of a fragment. **07**
Q.3 (a) What is Layout? What are the advantages of setting a Layout? **03**
 (b) List out various layouts available in Android. Explain any one in detail. **04**
 (c) What is an Intent? Explain types of Intent in Android with example. **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 database. **07**

OR

- Q.4** (a) What is parsing? Discuss how can you perform parsing using JSON in Android application. **03**
 (b) Discuss AsyncTask in detail. **04**
 (c) Write Code to insert Contact Details (cID, cName, cPhoneNumber) in SQLite Database in Android. **07**
Q.5 (a) How to add notification in Android App? Explain with an example. **03**
 (b) What is Geocoding and Reverse Geocoding? Explain it with example. **04**
 (c) Which are the types of animations supported in Android? Explain any one in detail. **07**

OR

- Q.5** (a) Explain the use of Broadcast Receiver in Android. **03**
 (b) What is Service? Discuss various Service life cycle methods in detail. **04**
 (c) How can you publish your application in Google Play Store? Explain the entire process. **07**
