

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER –IV EXAMINATION –SUMMER-2019

Subject Code:4649303**Date: 18-05-2019****Subject Name: Mobile Computing****Time:10.30 am to 1.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Define following terms. **07**
- i. Activity
 - ii. Service
 - iii. Intent
 - iv. Receiver
 - v. Context
 - vi. Notification
 - vii. BroadcastReceiver
- (b)** Discuss on life cycle of Android Activity with diagram. **07**
- Q.2 (a)** Explain Android architecture with diagram. **07**
- (b)** What are the different types of Menu available in android? Explain any one with purpose and example. **07**
- OR**
- (b)** Explain any seven widget control which are useful for creating android screen design. **07**
- Q.3 (a)** What are the different types of Animation in Android? Explain any one in detail. **07**
- (b)** List various layouts for developing android application. Explain any one in detail with example. **07**
- OR**
- Q.3 (a)** What is SharedPreferences? Write a code to read and write data using SharedPreferences. **07**
- (b)** What are the different types of Android Resources? Write an XML syntax for creating following types of Resources. **07**
- i. String array
 - ii. Menu
 - iii. Animation
- Q.4 (a)** What is the Role of AndroidManifest file in Android Application? List and explain any three tags which we can write within AndroidManifest file with its purpose and example. **07**
- (b)** Write a code for implementation of following tasks. **07**
- i. Send SMS
 - ii. Make a CALL
- OR**
- Q.4 (a)** How can we perform insert, update, delete and view operation on SQLite database? Explain each with suitable example. **07**
- (b)** Define Fragment. Write code for adding, replacing and removing any fragment. **07**
- Q.5 (a)** What are the required steps for signing and publishing android application? **07**
- (b)** Discuss the life cycle of Android Fragment with diagram. **07**

OR

- Q.5** (a) What are the different types of Intent? Explain each with purpose and example. **07**
- (b) What is the purpose and syntax of permission tag while developing Android Applications? Write required permission for performing following tasks. **07**
- i. Send SMS
 - ii. Make a CALL
 - iii. Write data to SD Card
 - iv. Receive SMS
 - v. Read CALL LOG details

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