

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

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

**Subject Code:3640015**

**Date: 28-05-2019**

**Subject Name: Android Programming**

**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) i.** Which methods are available to add logging support to Android Application? **03**  
**ii.** Write a code to provide calling functionality in Android Application. **04**  
**(b)** Explain Android platform architecture with diagram. **07**
- Q.2 (a)** Discuss the life cycle of Android Activity with diagram. **07**  
**(b)** What is the use of <activity> tag and <intent-filter> tag in Android Application? **07**
- OR**
- (b)** What are the features of Android SDK? Explain in brief. **07**
- Q.3 (a)** Explain the use of following tags. **07**  
**i.** <EditText>  
**ii.** <Button>  
**iii.** <RatingBar>  
**iv.** <SeekBar>  
**v.** <AutoCompleteTextView>  
**vi.** <ListView>  
**vii.** <Gallery>  
**(b)** List various Layouts available in Android. Explain any one in detail. **07**
- OR**
- Q.3 (a)** What are the required steps for signing and publishing android application? **07**  
**(b)** Discuss the life cycle of Android Fragment with diagram. **07**
- Q.4 (a)** Explain the use of Location Based Services in android with example. **07**  
**(b)** Write a code to implement feature of sending and receiving SMS in android application. **07**
- OR**
- Q.4 (a)** What is Intent? How can we move between two android activities? How can we pass data from one activity to another activity using intent? **07**  
**(b)** Define Animation. Discuss Tween animation with example. **07**
- Q.5 (a)** What is menu? Which two types of menu available in Android? Explain any one with example. **07**  
**(b)** What is SQLite database? How can we perform insert, update, delete and view operation on SQLite database? Discuss with suitable example. **07**
- OR**
- Q.5 (a)** What is SharedPreferences? Write a code to store and retrieve data using SharedPreferences. **07**  
**(b)** Explain various sensors available in Android by giving a suitable example. **07**

\*\*\*\*\*