

**GUJARAT TECHNOLOGICAL UNIVERSITY****MCA INTEGRATED - SEMESTER-VII • EXAMINATION – WINTER 2020****Subject Code:4470611****Date:07-01-2021****Subject Name:Mobile Programming****Time:10:30 AM to 12:30 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Do as Directed: **07**
1. Android was developed by \_\_\_\_\_ company.
  2. \_\_\_\_\_ is used to perform long running background tasks in android.
  3. Write the permission required to Dial a number in android
  4. Write the permission required to Send SMS in android.
  5. Write the permissions required for Location in android.
  6. What is Animation in android?
  7. What is the use of ArrayAdapter class in android?
- (b)** Explain Android Architecture in detail. **07**
- Q.2 (a)** Explain Activity Life-Cycle in android by giving a suitable example. **07**
- (b)** Discuss about structure and importance of AndroidManifest.xml file. **07**
- Q.3 (a)** Explain SharedPreferences in android by giving a suitable example. **07**
- (b)** What is Intent? List out types of Intent. Also write about Explicit Intent in detail by giving a suitable example. **07**
- Q.4 (a)** Discuss AlarmManager in detail by giving a suitable example. **07**
- (b)** Discuss about Fragments in detail. **07**
- Q.5 (a)** Which steps are required for publishing an application and guaranteed successful deployment? **07**
- (b)** Explain WebView in android by giving a suitable example. **07**
- Q.6 (a)** What is Content Provider? What is the need of content provider? List out different Built-in Content providers provided by android. **07**
- (b)** Explain Sensors in android by giving a suitable example. **07**
- Q.7 (a)** Discuss SQLite Database. Explain with suitable example how can we insert, update & delete records in SQLite. **07**
- (b)** Create an Android Application which prompts user with the AlertDialog the AlertDialog must contain two buttons Yes and No the dialog must also contain appropriate message and icon, by selecting the Yes Button the application must get closed, While selecting the No button the alert dialog must be removed from the screen. **07**
- Q.8 (a)** Discuss in detail about AsyncTask in android. **07**
- (b)** Create an Android Application where the background colour of Layout in the Activity of your application should get changed based on the name of the Colour selected in the Options Menu. The Menu Item of Options Menu must contain name of at least six colours. **07**

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