

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated - SEMESTER– VII- EXAMINATION – WINTER 2018

Subject Code: 4470611**Date: 19-11-2018****Subject Name: Mobile 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)** Do as directed: **07**
1. The types of color formats that starts with # are _____.
 2. A button that can be used for on/off is known as _____.
 3. List important packages in Android SDK.
 4. DatePicker.init() method is used to _____.
 5. The number of parameter(s) used in Toast() method is/are _____.
 6. The spinner control is used for _____.
 7. Permission required to access internet is _____.
- (b)** What is Android Platform? Discuss various layers of Android Platform architecture in detail with diagram. **07**
- Q.2 (a)** What is WebView? Write the code to load content from specific Website and HTML file into WebView control. **07**
- (b)** How to add logging support to an android application? Discuss various methods of android.util.Log class. **07**
- OR**
- (b)** Discuss Android activity life cycle with suitable diagram. **07**
- Q.3 (a)** What is the use of Dialogs? Explain key methods required for managing the Dialog life cycle. **07**
- (b)** (i) Differentiate: **04**
1. Activity and Service
 2. Frame-by-frame Animation and Tweened Animation
- (ii) Define the permissions your application needs to register for the following task: **03**
1. Writing files to SD card
 2. Read Contacts
 3. Send SMS
- OR**
- Q.3 (a)** What is Content Provider? List out the uses of different built-in content providers and also explain any one of them in detail. **07**
- (b)** Discuss the structure and importance of AndroidManifest.xml file. **07**
- Q.4 (a)** Explain various methods of HttpURLConnection class with example. **07**
- (b)** What is Context Menu? How it is different from Option Menu? Explain how to create context menu with suitable example. **07**
- OR**
- Q.4 (a)** Explain with code to create, write and read data from the file. **07**
- (b)** Explain Spinner and AutoCompleteTextView widgets taking suitable example. **07**

- Q.5 (a)** What are resources? Explain creating String and Color Resources and accessing them programmatically using suitable example. **07**
- (b)** What is SQLite Database? Explain the use of ContentValues for inserting, updating and deleting the SQLite database records. **07**

OR

- Q.5 (a)** Explain Shared Preferences. Discuss the process of creating, saving and then retrieving User Shared Preferences. **07**
- (b)** Discuss the steps for guaranteeing successful publication and deployment of android application. **07**
