

GUJARAT TECHNOLOGICAL UNIVERSITY**MCA Integrated- SEMESTER- VII EXAMINATION – WINTER 2019****Subject Code: 4470611****Date:18/11/2019****Subject Name: Mobile Programming****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.

- Q.1 (a) Do as directed: 07**
1. Permission required to access internet is _____.
 2. What is AVD?
 3. Define: Context
 4. List image formats supported in Android.
 5. What is notification?
 6. Low-level memory management is one of the core functions of the Linux kernel.[True/False]
 7. setOrientation() method is used to set orientation of ScreenLayout. [True/False].
- (b) Explain various lifecycle methods of Android Activity with proper diagram. 07**
- Q.2 (a) Discuss the structure and importance of AndroidManifest.xml file. 07**
- (b) What is Layout? List out Different Layouts available in Android. Explain important attributes of RelativeLayout. 07**
- OR**
- (b) What is WebView? Write the code to load content from specific Website and HTML file into WebView control. 07**
- Q.3 (a) Explain different kind of menus available in the Android. Also explain with example how to set or invoke them within the application. 07**
- (b) What is Android Resource? Explain using example how to define and work with String, Color and Boolean resource. 07**
- OR**
- Q.3 (a) Define VideoView. Write the steps to play video stored in raw folder using videoview. 07**
- (b) Write code snippet for Sending and Receiving an SMS. 07**
- Q.4 (a) Discuss SQLite Database. Explain with suitable example for inserting, updating & deleting database records. 07**
- (b) What is Animation? List out different Animations in android. Explain Tween animation in detail 07**
- OR**
- Q.4 (a) Write the snippet to: 07**
- (i) Finding all and a particular sensor of the host environment
 - (ii) create a Map based Activity.
- (b) What is Intent? List out the various uses of intent and also explain using example how to pass additional information with intent. 07**
- Q.5 (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) Explain Android software stack in detail. 07**
- OR**
- Q.5 (a) Discuss the uses of different Android Development Tools. 07**
- (b) Discuss the steps for guaranteeing successful publication and deployment of android application. 07**
