

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER VII- EXAMINATION –SUMMER-2024

Subject Code: 4470611

Date: 14/05/2024

Subject Name: Mobile Programming

Time: 02:30 PM TO 05:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

- Q.1 (a) Do as directed: 07**
1. Android was developed by _____ company.
 2. What is Service?
 3. What is notification?
 4. Write the permissions required for Location in android.
 5. Write the permission required to Dial a number in android.
 6. You can shut down an activity by calling its _____ method.
 7. Explain Toast with example.
- (b) Write a note on Android Architecture in detail. 07**
- Q.2 (a) Explain in detail the Activity Life-Cycle in android by giving a suitable example. 07**
- (b) Write a detail note on structure and importance of AndroidManifest.xml file. 07**
- OR**
- (b) What are the ways to parse xml file in an android application? Explain how the xml is parsed using the XMLPullParser. 07**
- Q.3 (a) What is Intent? List out types of Intent. Also write about Explicit Intent in detail by giving a suitable example. 07**
- (b) Differentiate Spinner and List View with example. 07**
- OR**
- Q.3 (a) What is Android Resource? Explain using example how to define and work with String, Color and Boolean resource. 07**
- (b) Explain different kind of menus available in the Android. Also explain with example how to set or invoke them within the application. 07**
- Q.4 (a) List built-in layouts. Explain any two layouts in detail with example. 07**
- (b) What is SQLite Database? Explain methods for creating, updating, deleting and querying database records. 07**
- OR**
- Q.4 (a) What is Animation? List out different Animations in android. Explain Tween animation in brief. 07**
- (b) What is Content Provider? What is the need of content provider? List out different Built-in Content providers provided by android. 07**
- Q.5 (a) Discuss the uses of different Android Development Tools. 07**
- (b) What are Shared Preferences? Explain with example. 07**
- OR**
- Q.5 (a) Explain Android software stack in detail. 07**
- (b) What is needed by the application to send an SMS? Write code for sending and receiving SMS in your application 07**
