

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA INTEGRATED- SEMESTER - VII EXAMINATION- SUMMER-2023**

**Subject Code: 4470611**

**Date: 19/06/2023**

**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)** Explain Android Software Stack in brief. **07**

(b) Explain Activity Life-Cycle in android by giving a suitable example **07**

**Q.2 (a)** What do you understand by an adapter? what is the use of adapter in android application? explain with an example **07**

(b) What is SQLite Database. Explain with suitable example for inserting, updating & deleting database records. **07**

**OR**

(b) Define content provider? List out different Built-in Content providers provided by android **07**

**Q.3 (a)** What is Animation? List out different Animations in android. Explain Tween animation in brief. **07**

(b) Which steps are required for publishing an application and guaranteed successful deployment?. **07**

**OR**

(a) Explain Web View in android by giving a suitable example. **07**

(b) Explain Shared Preferences in android by giving a suitable example **07**

**Q.4 (a)** Explain Alarm Manager in brief by giving a suitable example. **07**

(b) Discuss the structure and importance of AndroidManifest.xml file. **07**

**OR**

(a) Explain the use of Spinner Control with example. **07**

(b) Explain the uses of different Android Development Tools. **07**

**Q.5 (a)** For what purpose Chronometer control is? Also explain with code the methods used with Chronometer. **07**

(b) Discuss in detail about AsyncTask in android **07**

**OR**

(a) Explain the difference between Implicit Intent and Explicit Intent. List any 6 native android action in tabular form. **07**

(b) How many types of progress bars are available? How their XML definitions differ? **07**

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