

Code No.: AI744PE

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H.T.No.

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**CMR ENGINEERING COLLEGE: : HYDERABAD  
UGC AUTONOMOUS**

**IV-B.TECH-I-Semester End Examinations (Supply) – April - 2024  
MOBILE APP DEVELOPMENT  
(CSM)**

[Time: 3 Hours]

[Max. Marks: 70]

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART-A**

**(20 Marks)**

1. a) What is an AVD? [2M]
- b) Discuss some of the best practices for Android programming? [2M]
- c) List the different types of UI components available in Android? [2M]
- d) What are fragments? [2M]
- e) Define an intent. [2M]
- f) What are native actions? [2M]
- g) How do you create new files? [2M]
- h) What are shared preferences? [2M]
- i) How do you create a new table in a SQLite database? [2M]
- j) Define a content provider? [2M]

**PART-B**

**(50 Marks)**

2. Explain the different components of the Android development framework? [10M]
- OR**
3. What are the differences between native Android apps, hybrid Android apps, and web apps? [10M]
  4. Differentiate between device pixels and density-independent pixels (dp)? [10M]
- OR**
5. Explain how do you create multi-screen activities? [10M]
  6. Classify the different types of notifications? [10M]
- OR**
7. Discuss how can you use intents and broadcasts to decouple different components of your app? [10M]
  8. Demonstrate how do you save and retrieve data using shared preferences? [10M]
- OR**
9. Briefly explain how do you ensure that your app's data is secure? [10M]
  10. Explain how do you use SQL queries to insert, retrieve, and delete data? [10M]
- OR**
11. Explain how do you use a content provider to insert, retrieve, delete, and update data? [10M]

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