

Code No.: AI744PE

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**CMR ENGINEERING COLLEGE: : HYDERABAD**  
**UGC AUTONOMOUS**  
**IV-B.TECH-I-Semester End Examinations (Regular) - November- 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 the Android Operating System? [2M]
- b) Explain the purpose of the Android development framework. [2M]
- c) What are the different types of layouts available in Android? [2M]
- d) Describe the role of the `android:layout_weight` attribute in layout design. [2M]
- e) Define an Intent in Android. [2M]
- f) What are native actions in Android? Provide two examples. [2M]
- g) What is persistent storage in Android? [2M]
- h) Explain the purpose of using files in application-specific folders. [2M]
- i) What is SQLite, and why is it used in Android applications? [2M]
- j) What SQL command would you use to create a table in a SQLite database? [2M]

**PART-B**

(50 Marks)

2. Discuss the best practices for handling network operations in Android to ensure efficient and reliable communication. [10M]
- OR**
3. Analyze the role of the Android Support Library in providing backward compatibility and additional features. [10M]
4. Discuss the Android Development Framework and its key SDK features. [10M]
- OR**
5. Illustrate the Android application lifecycle with a focus on activity lifecycle, states, and state changes. [10M]
6. Discuss the usage of Native Actions with Intents, such as dialing a number or sending SMS. [10M]
- OR**
7. Evaluate the importance of Toasts in Android and discuss their role in providing quick user feedback. [10M]
8. Explain the concept of persistent storage in Android and its importance in application development. [10M]
- OR**
9. Discuss the process of creating Shared Preferences and explain how data is stored and retrieved. [10M]
10. Discuss the procedure for creating tables in a SQLite database and explain the importance of schema design. [10M]
- OR**
11. Discuss the functions of Content Providers for data insertion, deletion, retrieval, and update, and compare them to direct SQLite operations. [10M]

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