2311000501050003
EXAMINATION MARCH 2025
MASTER OF SCIENCE (COMPUTER APPLICATION)
(FIRST SEMESTER)
ANDROID API AND FRAMEWORK

[Time: As Per Schedule] **[Max. Marks: 70]**

Instructions:
1. Fill up strictly the following details on your answer book
   a. Name of the Examination : **MASTER OF SCIENCE (COMPUTER APPLICATION) (FIRST SEMESTER)**
   b. Name of the Subject : **ANDROID API AND FRAMEWORK**
   c. Subject Code No : **2311000501050003**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

Student's Signature

Q.1 Answer the following [any 10] **10**

1. Which attribute is used to specify the theme in an Android application?

   a) android:theme b) android.style

   c) android:uiMode d) android:themeMode

2. Which gesture event is used for zooming in Flutter?

   a) Tap b) Double tap

   c) Pinch d) Drag

3. Which component is NOT part of the Flutter framework architecture?

   a) Widgets b) Gestures

   c) Views d) Layers

4. Which class is used to create simple animations in Flutter?

   a) Animated Container b) Animation Controller

   c) Tween d) Duration

5. Which of the following is used to animate between values in Flutter?
    a) Duration b) Tween
    c) Timer d) Scaffold

6. Which of the following is NOT a part of the core Flutter framework?
    a) widgets b) material
    c) Cupertino d) flutter _image _picker

7. Which widget is used in Flutter to detect gestures like tapping, dragging, and swiping?
    a) GestureBuilder b) GestureDetector
    c) GestureWidget d) EventListener

8. How do you return to the previous screen in Flutter?
    a) Navigator.pop() b) Route.pop()
    c) Navigator.back() d) Screen Transition.pop()

9. Which method would you call to start an animation in Flutter using AnimationController?
    a) animate() b) begin()
    c) forward() d) start()

10. In Flutter, which method is used to open a connection to an SQLite database?
    a) openDatabase() b) connectDatabase()
    c) databaseOpen() d) initDatabase()

11. How do you initialize state in a class component in React Native?
    a) this.state = { key: value }; b) state = { key: value };
    c) this.setState({ key: value }); d) useState({ key: value });

Q.2 Answer in short [any 9 | **18**

1. How do you enable USB debugging on an Android device?
2. What is the Flutter SDK?
3. What is the difference between implicit and explicit animations in Flutter?
4. What are the key advantages of using SQLite in Android apps?
5. How do you use the LIKE and NOT LIKE clauses in an SQLite query to filter data in Flutter?
6. What is flexbox?
7. Define the significance of router in react native.
8. How does the AnimationController class function in Flutter animations?
9. How does the Draggable widget work in handling advanced gestures in Flutter?
10. What steps are involved in manually installing an APK on an Android device?

Q.3 Explain in detail. [any two] **14**

1. Explain Style Inheritance with example.
2. What are the common gestures supported in Flutter? Explain with Example.
3. Which platform-specific widgets are used in Flutter for Android and iOS, and how do they enhance platform-specific functionality?

Q.4 Explain in detail. [any two] **14**

1. Explain http class functionality with its methods.
2. What is plug-in package? How to publish package?
3. What are the differences between unit tests, widget tests, and integration tests in Flutter?

Q.5 Answer the following. [any two] **14**

1. Explain steps to install and create basic app in react native.
2. Explain any 5 presentation components of react native with example.
3. Explain navigation and route in react native with proper example.

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