

Seat No:

Enrollment No:

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech/Int. B.Tech, Summer 2024 - 2025 Examination

Semester: VI

Subject Code: 303105379

Subject Name: Mobile App Development

Date: 23-04-2025

Time: 2:00pm - 4:30pm

Total Marks: 60

Instructions:

1. This question paper comprises of two sections. Write answer of both the sections in separate answer books.
2. From Section A, **Q.1** is compulsory, From Section B, **Q.1** is compulsory.
3. Figures to the right indicate full marks
4. Draw neat and clean drawings & Make suitable assumptions wherever necessary.
5. Start new question on new page.
6. BT- Blooms Taxonomy Levels – Remember-1, Understand -2, Apply-3, Analyse-4, Evaluate-5, Create-6

SECTION - A

Q.1	Answer the following questions.	Marks	CO	BT
	A. Explain the following: a) Explain the importance of Android Development Tools (ADT) in app development. b) What is an Android Virtual Device (AVD), and why is it used? c) Describe two key features of Android Studio that help developers create Android applications.	06	CO1	BT3
	B. Explain the following: a) Analyze the difference between Activity and Service in Android. b) How does Intent facilitate communication between components in Android? Provide an example. c) Compare implicit and explicit intents with real-world use cases.	06	CO1	BT4
Q.2	A. What are Properties, Events, and Methods in UI widgets?	04	CO1	BT2
	B. Explain the importance of testing in Android application development.	05	CO1	BT4
	OR			
	B. What is the purpose of the Asset Manager in Android?	05	CO4	BT2
Q.3	A. What is ScrollView and when should it be used?	04	CO3	BT2
	B. How can we dynamically change layouts in Android?	05	CO1	BT3
	OR			
	B. Explain how to save the Fragment state during orientation changes.	05	CO3	BT1
SECTION - B				
Q.1	Answer the following questions.	Marks	CO	BT

	A. Explain the following Absolute Layout. a)Positioning Views b)Layout Parameters c)Deprecated Features	06	CO1	BT3
	B. Explain the following: a) What is a Content Provider, and why is it used in Android? b) How does ContentResolver help access data from a ContentProvider? c) What is a Content URI, and how does it help identify data in a ContentProvider?	06	CO4	BT3
Q.2	A. What is Firebase Dynamic Links, and how does it work?	04	CO2	BT2
	B. Describe how to use SharedPreferences for data storage.	05	CO2	BT3
	OR			
	B. What are the different ways to replace Fragments dynamically?	05	CO3	BT3
Q.3	A. Implement Firebase Dynamic Links to handle app deep links in an Android app.	04	CO3	BT3
	B. How can we create a custom AlertDialog in Android?	05	CO2	BT1
	OR			
	B. Describe the process of implementing an endless scrolling list in RecyclerView.	05	CO3	BT3