



# PRESIDENCY UNIVERSITY

BENGALURU

## Mid - Term Examinations – October 2025

Date: 11-10-2025

Time: 09.30am to 11.00am

School: SOCSE	Program: CSE	
Course Code :CSE2505	Course Name: Mobile Application Development	
Semester: V	Max Marks:50	Weightage:25%

CO - Levels	C01	C02	C03	C04	C05
Marks	24	26			

### Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

### Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	Differentiate between Android and IOS	2 Marks	L2	C01
2	What is Logcat and mention the use of Logcat in Android Studio?	2 Marks	L2	C01
3	Name two advantages of Constraint layout over Relative layout	2 Marks	L2	C02
4	How is a Context Menu different from a Popup Menu?	2 Marks	L2	C02
5	How do you put extra data into an Intent?	2 Marks	L3	C02

### Part B

Answer the Questions.

Total Marks 40M

6.	a.	Discuss the evolution of the Android operating system across different versions, highlighting key features of android	10 Marks	L2	C01
Or					
7.	a.	Depict the Android system architecture in a layered diagram	10 Marks	L2	C01

		and explain the role of each component .			
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8.	a.	Describe the sequence of Activity Lifecycle methods invoked during state changes (launch, pause, resume, destroy), supported by a neat diagram and sample code snippets	10 Marks	L2	CO1
<b>Or</b>					
9.	a.	Illustrate the architecture of Android Debug Bridge (ADB) and explain the functionalities of its client, server, and daemon components	10 Marks	L2	CO1

10.	a.	Explain the concept of Views in Android as the fundamental UI building blocks, with examples of commonly used Views such as TextView, EditText, Button, and ImageView	10 Marks	L2	CO2
<b>Or</b>					
11.	a.	<p>Design and implement an Android application for a student management system. The app should include:</p> <ul style="list-style-type: none"> <li>• An Options Menu to provide navigation items such as Home, Profile, and Settings.</li> <li>• A Context Menu that appears on long-pressing a student's name in a ListView, offering actions like Edit and Delete.</li> <li>• A Popup Menu attached to a button, displaying quick actions such as Share and Logout.</li> </ul> <p>The application must demonstrate the correct use of onCreateOptionsMenu(), onOptionsItemSelected(), and PopupMenu class along with the required XML and Java code snippets</p>	10 Marks	L3	CO2

12.	a.	Demonstrate with code how Explicit Intents differ from Implicit Intents by implementing one Activity transition (Explicit) and one system action (Implicit).	10 Marks	L3	CO2
<b>Or</b>					
13.	a.	Construct an example application to illustrate the Fragment lifecycle. Override all callback methods, insert log statements, and analyze the order of execution as the Fragment transitions between states	10 Marks	L3	CO2