Roll No.											

PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations – December 2025

Date: 24 – 12- 2025 **Time:** 01:00pm – 04:00pm

School: SOCSE	**Program:** CSE/CAI/IST	
Course Code: CSE2505	**Course Name:** Mobile Application Development	
Semester: V	**Max Marks**: 100	**Weightage**: 50%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	14	14	24	24	24

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. 10Q x 2M=20M

1.	Define Android SDK & role of Android SDK in app development	**2 Marks**	**L1**	**CO1**
2.	Describe Logcat and mention the use of Logcat in Android Studio?	**2 Marks**	**L2**	**CO1**
3.	Describe Text view and Edit view. Mention the use of android:inputType in EditText?	**2 Marks**	**L2**	**CO2**
4.	Differentiate between wrap_content and match_parent	**2 Marks**	**L2**	**CO2**
5.	Differentiate between started service and bound service.	**2 Marks**	**L2**	**CO3**
6.	Define URI in the context of Content Providers?	**2 Marks**	**L1**	**CO3**
7.	Define SharedPreferences in Android?	**2 Marks**	**L1**	**CO4**
8.	Describe the use of SQLiteOpenHelper class?	**2 Marks**	**L2**	**CO4**
9.	Define Canvas in Android graphics? Mention any two drawing methods of the Canvas class.	**2 Marks**	**L1**	**CO5**
10.	Differentiate between Network provider and GPS provider.	**2 Marks**	**L2**	**CO5**

Part B

Answer the Questions. **Total Marks 80M**

11.	a.	Illustrate the layered Android Architecture by detailing each component with a labeled diagram.	10 Marks	L3	CO1
	b.	Discuss the different types of Android Layouts (LinearLayout, RelativeLayout, ConstraintLayout, FrameLayout) and illustrate their use-cases with example	10 Marks	L2	CO2
Or					
12.	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.	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

13.	a.	Explain the types of Services in Android. Write a program to create a simple background service that plays music when started and stops when stopped.	10 Marks	L2	CO3
	b.	Explain the lifecycle methods of a Service in Android with a well-labelled diagram and suitable description of each stage.	10 Marks	L2	CO3
Or					
14.	a.	Describe the steps to create and register a Broadcast Receiver in Android.	10 Marks	L2	CO3
	b.	Explain Broadcast Receiver with an example application to monitor the battery level using broadcast receivers	10 Marks	L2	CO3

15.	a.	Define Notification. Mention the types of notifications and describe the structure of Notification	10 Marks	L2	CO4
	b.	Infer the steps to create and display a Notification with actions in Android.	10 Marks	L4	CO4
Or					
16.	a.	Describe Shared Preferences with example code to store and retrieve user details (e.g., username and password)	10 Marks	L2	CO4
	b.	Compare Shared Preferences and SQLite database for data storage with examples.	10 Marks	L4	CO4

17.	a.	Explain in detail the types of animations in Android with examples.	10 Marks	L2	CO5
	b.	Design an application to perform various animations on a particular image.	10 Marks	L6	CO5
Or					
18.	a.	Explain Location based services and the component of Location based services.	10 Marks	L2	CO5
	b.	Design an application to find the current location of user.	10 Marks	L6	CO5