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PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 07-10-2025

Time: 02.00pm to 03.30pm

School: SOCSE	Program: B.Tech	
Course Code : CIT2503	Course Name: Mobile Application for IoT	
Semester: V	Max Marks: 50	Weightage: 25%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	26	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.

5Q x 2M=10M

1	Define Content provider with a proper example?	2 Marks	L1	CO1
2	Explain the importance of Broad Cast receiver?	2 Marks	L1	CO1
3	List any four Android OS version?	2 Marks	L1	CO1
4	Enlist System Requirement for Android Studio?	2 Marks	L1	CO2
5	Name some of the SQLite open handler methods.	2 Marks	L1	CO2

Part B

Answer the Questions.

Total Marks 40M

6.	a.	With a proper example explain any two-domain specific IOT application? a. Home Automation b. Cities c. Environment d. Energy	10 Marks	L2	CO 1
Or					
7.	a.	Imagine you are asked to design a mobile application and need to understand how different layers of Android interact with each other. With the help of a neat diagram, explain the architecture of the Android operating system.	10 Marks	L2	CO 1

8.	a.	List four communication model and explain any two in detail with neat diagram?	10 Marks	L2	CO 1
Or					
9.	a.	With a neat diagram and proper example explain Logical Design of IoT?	10 Marks	L2	CO 1

10.	a.	Suppose you are building a dynamic Android application where parts of the user interface need to be reusable and adaptable for both mobiles and tablets. To achieve this, you decide to use Fragments. What is a Fragment, and with the help of a neat diagram, explain the Fragment lifecycle?	10 Marks	L2	CO 2
Or					
11.	a.	List and explain different basic view group?	10 Marks	L2	CO 2

12.	a.	While developing an Android app, you need to navigate between activities or interact with external apps like the camera. What is an Intent? Explain its types with examples and a neat diagram	10 Marks	L2	CO 2
Or					
13.	a.	List and explain the four benefits of mobile app with a real time application?	10 Marks	L2	CO 2