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SNS COLLEGE OF TECHNOLOGY
(Autonomous)

A

MCA- Internal Assessment –II (Nov 2023)
Academic Year 2023-2024(Odd) / Third Semester
19CAT701 –Mobile Application Development

Time: 1$^{1/2}$ Hours   Maximum Marks: 50

Answer All Questions
PART - A (5 x 2 = 10 Marks)

		CO	BL
1	Highlight the different forms of Notifications?	CO2	Und
2	Show the purpose of threads in Android?	CO2	App
3	Identify the suitable storage data model for sharepreference	CO3	Ana
4	Show how Broadcast Receiver is implemented?	CO3	Ana
5	Prepare some information accessed through Telephony Manager.	CO3	App

PART - B (2 x 13 = 26, 1 X 14 = 14 Marks)

6	**(a)**	Examine Service life-cycle states and its call back methods.	CO2	Ana
		(Or)		
	(b)	Illustrate the benefits of AsyncTask over Threads for implementing long-running tasks	CO2	Ana
7	**(a)**	Evaluate data persistence and access using Shared Preferences.	CO3	Eva
		(Or)		
	(b)	Evaluate the components of the Telephony framework and identify their significance in supporting communication systems, using a diagram to illustrate your points.	CO3	Eva

8 **(a)** Imagine you are tasked with developing a weather forecast app for Android. Your app should provide users with up-to-date weather information for their current location and other specified locations.1. How would you predict your notification in the front and backend process?   CO2   Cre
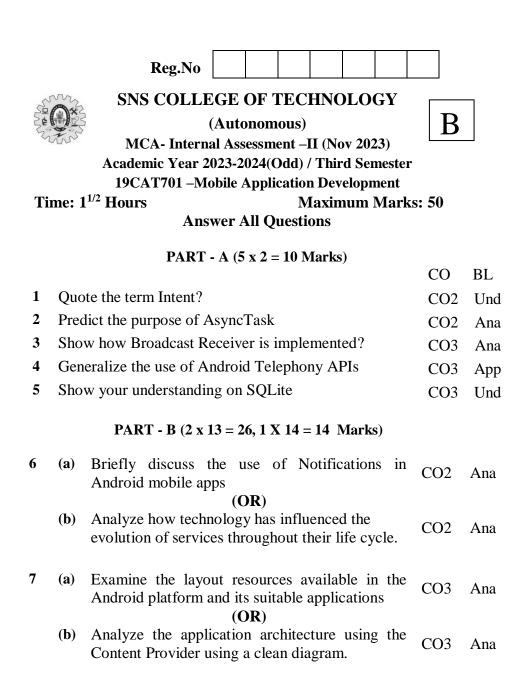
<div align="center">(Or)</div>

Suppose you are building a social networking app. How would you implement features such as

(b) user authentication, posting updates, and integrating with popular social media platforms like Facebook and Twitter?   CO3   Cre

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B

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Time: 1¹ᐟ² Hours   Maximum Marks: 50

Answer All Questions

PART - A (5 x 2 = 10 Marks)

		CO	BL
1	Quote the term Intent?	CO2	Und
2	Predict the purpose of AsyncTask	CO2	Ana
3	Show how Broadcast Receiver is implemented?	CO3	Ana
4	Generalize the use of Android Telephony APIs	CO3	App
5	Show your understanding on SQLite	CO3	Und

PART - B (2 x 13 = 26, 1 X 14 = 14 Marks)

6	**(a)**	Briefly discuss the use of Notifications in Android mobile apps	CO2	Ana
		(OR)		
	(b)	Analyze how technology has influenced the evolution of services throughout their life cycle.	CO2	Ana
7	**(a)**	Examine the layout resources available in the Android platform and its suitable applications	CO3	Ana
		(OR)		
	(b)	Analyze the application architecture using the Content Provider using a clean diagram.	CO3	Ana

8 (a) Creating an app for a client to track their fitness is your duty. The client has specified all of the requirements in detail and requests that the software be compatible with Android tablets and smartphones. Running, cycling, and weightlifting are just a few of the physical activities that the app ought to monitor. Exercise logs, fitness objectives, and progress tracking should all be available to users. The customer also requests that the app feature a social component where users may compete with peers and discuss their accomplishments.1. Considering that the app must retain user data, social interactions, and exercise records, how would you handle data storage and user profiles? CO2 Cre

(Or)

(b) It is your responsibility to create an Android reminder software that lets users schedule and receive alerts for different chores and occasions. Utilizing Android's BroadcastReceiver component effectively is necessary to accomplish this. Users should get timely notifications according to the planned time and date of each event, and they have the ability to add, modify, and remove reminders. In addition, the app ought to manage reminders even when it's not actively running or the device is in a low-power mode.1. How BroadcastReceiver might be used to receive and manage reminders. To register and unregister the receiver, what kind of broadcast events would you use? CO3 Cre