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RAN-2111040102050003

MCA (Sem. - II) Examination April - 2025

Android Application Programming (Paper : 205)

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

MCA (Sem. - II)

Name of the Subject :

Android Application Programming (Paper : 205)

Subject Code No.: **2111040102050003**

Seat No.:

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Student's Signature

Q.1. Do as Directed 14

[A] What are the different layers in the Android Software Stack? Explain role of application framework in detail. 6

OR

[A] What are the functions of the AndroidManifest.xml file in an Android application?

[B] Explain step by step process to show notification on android device. 5

[C] What is Android SDK? 3

Q.2 Do as Directed 14

[A] Describe the steps with Java code to display name of months in a List View. 6

OR

[A] What is context menu? Explain steps to display menu and to handle the menu-item select event.

[B] Explain complete prototype and usage of setContentView() and findViewById() method. 5

[C] What is Layout in Android? List various layouts supported by android. 3

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Q.3	Do as directed.	14
[A]	What is the difference between an implicit and explicit Intent? Provide examples of each.	6
OR		
[A]	Define Activity. Discuss the activity lifecycle in Android. How do various lifecycle methods affect app behavior?	
[B]	Explain the concept of fragments in Android applications. How do they differ from activities?	5
[C]	How an application can register a broadcast receiver for specific action.	3
Q.4	Do as directed	14
[A]	What is a Content Provider in Android? Discuss the steps involved in reading data from the Content Providers.	6
OR		
[A]	Write and explain a code segment (Java code) to create a table and insert a record in the table within SQLite database.	
[B]	What is SharedPreferences? Write and explain proper code segments to store and retrieve data using SharedPreferences.	5
[C]	How do you connect to an external web service from an Android app?	3
Q.5	Do as directed	14
[A]	Describe the step-by-step process for working with Location APIs in Android to get location of the device.	6
[B]	What is geocoding and reverse geocoding? Write Java code to perform geocoding and reverse geocoding within android application.	5
[C]	Write steps - to send SMS from android app.	3