



RAN-2111040102050003

MCA (Sem.II) Examination April - 2026

Android Application Programming (Paper - 205)

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book.	Seat No.: <table border="1"> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> Student's Signature						

- Q. 1. Do as directed (Any 2) 14**
- [A] What are Resources in Android? Explain the role of the res folder and briefly describe its main subfolders used to create a resource-independent Android application.
- [B] Describe the layered architecture of Android and explain any two layers in detail.
- [C] Explain the structure and significance of Android Manifest.xml.
- Q. 2. Do as directed (Any 2) 14**
- [A] Write and explain the steps to display a DatePickerDialog in an Android application and handle its callback method to get the selected date.
- [B] Explain any two methods, with proper code segments, to handle the onClick event of a Button widget in an Android application.
- [C] Explain the concept of a Context Menu in Android. Write the steps to create a Context Menu for a button and handle on ContextItemSelected event. Include proper code segments.
- Q. 3. Do as directed (Any 2) 14**
- [A] Explain explicit and implicit Intent giving a proper example.
- [B] What is the role of Activity in an Android Application? Discuss how Activities in Android can send and receive data from each other.
- [C] Explain the role of the Broadcast Receiver as an Android application component. Also, explain how an application can register a broadcast receiver for a specific action.
- Q. 4. Do as directed 14**
- [A] Write complete syntax and usage of insert(), update() and delete() methods of SQLiteDatabase.
- [B] Explain the purpose of SharedPreferences in Android. Write code to save user settings and retrieve them later.
- Q. 5. Do as directed (Any 2) 14**
- [A] Write Java code to perform geocoding and reverse geocoding within an Android application.
- [B] Explain the steps to request permissions from the user at runtime in Android. Also, explain the callback method onRequestPermissionsResult().
- [C] Explain the steps to send SMS from an Android application.