



RAN-2111040102050002

MCA (Sem.-II) Examination April - 2026

iOS Development using Swift (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. Answer the Following Questions in Short (Any Seven) 14**
- 1) Explain in brief the significance of App Delegate.
 - 2) Explain with small example function in Swift.
 - 3) What is a TableView?
 - 4) What are overlays in MapKit?
 - 5) Explain the role of info.plist file in iOS application.
 - 6) What is the role of CLLocationManager?
 - 7) What is UserDefaults?
 - 8) Explain the concept of generics in Swift.
- Q.2. Answer the Following Questions (Any Two) 14**
- 1) Explain MVC in iOS with a proper example.
 - 2) Describe the View Controller life cycle with a diagram. Explain the purpose of each method.
 - 3) Explain the architecture of iOS using the MVC design pattern. How does MVC help in the separation of concerns?
- Q.3. Explain in Detail. (Any Two) 14**
- 1) Explain object-oriented concepts in Swift using classes and objects. Include properties and methods.
 - 2) Explain control flow in Swift with suitable examples. Include loops and conditional statements.
 - 3) Describe functions and closures in Swift. Explain how closures differ from normal functions.
- Q.4. Write Detail Notes (Any Two) 14**
- 1) Discuss container view controllers such as UINavigationController and UITabBarController.
 - 2) Describe various UI controls like UIButton, UISlider, UISwitch, and UIDatePicker.
 - 3) Explain UIAlertController and its role in user interaction.
- Q.5. Answer the following Questions (Any Two) 14**
- 1) Describe how location-based services are implemented in an iOS application.
 - 2) Describe how data is stored and retrieved using UserDefaults.
 - 3) Discuss the Core Data framework in detail. Explain its components and advantages.