

RAN-1911000702030002

M. Sc. (ICT) (Sem.-II) Examination April - 2026 Smart Device Computing using iOS (Paper-203)

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 (2) Do as directed. (3) Draw the figure wherever necessary.	Seat No.: Student's Signature
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- Q. 1. Answer the following: 14**
- A. What are Frameworks? Explain about iOS architecture in detail. 7
- OR**
- How to initialize object in Swift? Explain inheritance with suitable example in Swift.
- B. Explain about MVC concept in iOS application development 5
- C. What is the purpose of info.plist file in swift? 2
- Q. 2. Answer the following: 14**
- A. How to recognize Gestures in swift. Explain the following Gestures with example. 7
- [1] Tap [2] Swipe [3] LongPress.
- OR**
- Define UIView, UIWindow and UIViewController and discuss their relationship in app Development.
- B. Explain about MVC concept in iOS with suitable example. 5
- C. What is the role of Interface Builder in iOS app development? 2
- Q. 3. Answer the following: 14**
- A. Explain UIPickerView View and UIDate Picker With Example. 7
- OR**
- What is alert controller. Explain its type with example.
- B. Explain the usage and working flow of UICollectionView. 5
- C. Write steps to implement push navigation between two screens. 2
- Q. 4. Answer the following: 14**
- A. Differentiate SQLite and Core Data. Explain about NSManagedObjectContext and NSPersistentCordinator with respect to Core Data framework. 7
- OR**
- What are features of SQLite? Explain about important methods used to implement SQLite in Swift.
- B. Differentiate JSON and XML parsing. How to parse JSON data in iOS application. 5
- C. Define data manipulation techniques. 2

- Q. 5. Answer the following:** **14**
- A. What are different forms of map view in MapKit View. Explain how to add Annotation on MapKit View with example. 7
- OR**
- Write steps to publish app to the AppStore.
- B. What permission need to set to access current location of user? Explain about geocoding and reverse geocoding. 5
- C. Differentiate swift UI and UI Kit. 2
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