

**RAN-2211000608030001**

M.Sc. (IT) (Sem. VIII) Examination April - 2026
Smart Device Computing Using iOS

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.:

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Student's Signature

- Q. 1 Answer the following in short. (14)**
1. What is the role of Playground in Xcode IDE?
 2. Give an example of Protocol in Swift.
 3. What is plist in swift?
 4. Define the term initializer.
 5. Define IBOutlet and IBAction.
 6. What is constraint-based layout?
 7. What is the use of cellForRowAt method?
- Q. 2 Answer the following in detail (Any 2) (14)**
1. Describe the main components of Xcode workspace with neat diagram.
 2. Explain about basic UIControls used in Swift applications.
 3. Explain the iOS Application Life Cycle with diagram.
- Q. 3 Answer the following in detail (Any 2) (14)**
1. Explain different types of navigation technique.
 2. Explain the usage and working of UI Collection View.
 3. Explain the implementation of UIPickerView of 3 components with example.
- Q. 4 Answer the following in detail (Any 2) (14)**
1. Explain the implementation of TableView to insert and remove items dynamically with example.
 2. Explain about user defaults with suitable example.
 3. Explain the implementation of Gestures with UIElements.
- Q. 5 Answer the following in detail (Any 2) (14)**
1. Discuss CLLocation framework and its uses.
 2. How to initialize object in Swift? Explain about method overriding in swift example.
 3. Write a note on methods used to perform CRUD operations on SQLite.