



RAN - 1911000702030002

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M. Sc. (ICT) (Sem. - II) Examination April - 2025

Smart Device Computing using iOS (Paper : 203)

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:

M. Sc. (ICT) (Sem. - II)

Name of the Subject :

Smart Device Computing using iOS (Paper : 203)

Subject Code No.: **1911000702030002**

Seat No.:

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Student's Signature

- (2) Do as directed.
(3) Draw the figure wherever necessary.

- Q.1 Answer the following: 14**
- A. Explain about different parts of Xcode IDE. 7
- OR**
- Explain about iOS architecture in detail.
- B. Explain about MVC concept in swift with appropriate example. 5
- C. Enlist methods of View Controller life cycle in proper sequence of their execution. 2
- Q.2 Answer the following: 14**
- A. Explain the concept of protocol-oriented programming(POP) in Swift. 7
- OR**
- Differentiate Class and Structure in swift. Explain different ways to initialize class object with appropriate example.
- B. Explain about optionals in Swift with appropriate example. 5
- C. Differentiate Dictionary and Tuple. 2

- Q.3 Answer the following: 14**
1. What are Gestures. How to detect following Gestures in detail. 7
 [1] Pinch [2] Swipe [3] Tap
- OR**
- Differentiate table view and collection view. Explain about how to implement collection view in swift with appropriate example?
2. Explain about implementation of static table in swift. 5
 3. How to display an image in image view? 2
- Q.4 Answer the following: 14**
1. Differentiate Core Data and SQLite framework. Explain about Core Data framework in detail. 7
 2. What is the purpose of user defaults in swift? Explain with appropriate example. 5
 3. What is IBAction and IBOutlet? 2
- Q.5 Answer the following: 14**
1. What are location based services? Explain about frameworks and classes used to get location based services in swift. 7
- OR**
- Write steps to publish the app to AppStore.
2. Explain about JSON parsing with appropriate example. 5
 3. What is the purpose of user defaults? 2