



RAN - 1911000702030001

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

Smart Device Computing Using Android (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 Android (Paper : 203)

Subject Code No.: **1911000702030001**

Seat No.:

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Student's Signature

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

Q.1 Do as directed (Any Two)

14

1. What are the main features of Kotlin?
2. What are the basic arithmetic operators in Kotlin? Provide examples of how to use them.
3. How do you perform looping in Kotlin? Describe the different types of loops.

Q.2 Do as directed (Any Two)

14

1. Discuss the main components of an Android application?
2. Explain event handling with suitable example.
3. What are Broadcast Intents in Android? How do they allow communication across different components or apps?

- Q.3 Do as directed (Any Two) 14**
1. What is the lifecycle of an Intent? How does it relate to the lifecycle of an Activity or Service in Android?
 2. What is SQLite in Android? Why is it commonly used for local data storage?
 3. What is a Content Provider in Android, and what is its role in data sharing between apps?
- Q.4 Do as directed 14**
1. How do you display a map on a screen using Google Maps API and show a user's current location on it?
 2. What is Google Cloud Messaging (GCM)? How does it enable push notifications and messaging services for Android applications?
- Q.5 Do as directed (Any Two) 14**
1. What is API integration? Why is it important for communicating with external services from an Android app?
 2. What is Firebase Cloud Storage? How does it help in storing and retrieving user data in Android applications?
 3. What is Android Debug Bridge (ADB)? How can you use it for debugging Android applications?
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