

Total No. of Questions: 20

Total No. of Pages: 02

Roll No. _____

Paper Code: 3C3005

MCA III-Sem (Main & Back) Exam Jan 2026
MCA-305(N) Mobile Application Development

3C3005

Time: 3 Hours

Maximum Marks: 70

Instructions to Candidates:

- 1) The question paper is divided in three parts.
- 2) Part A contains 10 questions which are compulsory. Part B contains five questions which are compulsory. Part C contains five questions of which three are to be attempted.

Part A (Word limit 25)

All questions are compulsory

10x2=20

- Q.1 Define Mobile Application.
- Q.2 What is Mapkit?
- Q.3 What is the purpose of GPS integration in the mobile application?
- Q.4 What is an Android Virtual Device (AVD)?
- Q.5 Define the syntax for intent - filter tags.
- Q.6 Define emulator.
- Q.7 What is core Data in IOS?
- Q.8 What does SQLite provide in Android?
- Q.9 What is firebase cloud Messaging (FCM)?
- Q.10 What is the role of a Broadcast Receiver in Android?

Part B
Attempt all five questions.

5x4=20

- Q.1 Differentiate between activity and fragment in Android.
- Q.2 What are Intents in Android? Explain with an example.
- Q.3 How does social media integration benefit in mobile apps?
- Q.4 What is core Data in IOS? How does it differ from SQLite?
- Q.5 **Describe the design constraints** in mobile app development.

Part-C
Attempt any three questions.

3x10=30

- Q.1 What do you understand by the term "Android". Differentiate between ~~IOS~~ and Android?
- Q.2 Describe the Android architecture in detail.
- Q.3 What are Android Services? Give an example.
- Q.4 Describe the publishing process for an Android app.
- Q.5 What is Kotlin and why is it preferred for Android development?