

B.C.A Semester - 6 (CBCS) Examination**March/April-2026 (NEW COURSE)****Mobile Computing using Android and iPhone (Core (New))****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Que. 1 (A) Attempt the following. (03)
- 1) Give full form OHA.
 - 2) Give full form SDK.
 - 3) An Android Service provides a user interface for interacting with the user : True/False
- Que. 1 (B) Answer any two. (06)
- 1) Explain the role of manifest file in Android Application.
 - 2) Explain with example: how an Intent Filter works in Android.
 - 3) Differentiate between implicit intent and explicit intent in Android.
 - 4) What is Application Context? Explain by giving example.
- Que. 1 (C) Answer any one. (05)
- 1) List various resources in Android. Explain any one in detail with its usefulness.
 - 2) Explain the anatomy of an Android application.
- Que. 2 (A) Attempt the following. (03)
- 1) What is List View control?
 - 2) What is the use of a Progress Bar?
 - 3) A _____ UI element is used to allow user to select the time.
- Que. 2 (B) Answer any two (06)
- 1) Differentiate between Linear Layout and Relative Layout.
 - 2) Explain dialogues in Android. Take suitable example.
 - 3) Explain the usefulness of Radio Group giving an example.
 - 4) Differentiate between Grid View and List View.
- Que. 2 (C) Answer any one (05)
- 1) Provide an overview of Frame-by-Frame Animation. Explain how it is used in Android Application?
 - 2) List various UI Screen elements. Explain any two with example.
- Que. 3 (A) Attempt the following. (03)
- 1) What is the use of Cursor Object?
 - 2) Define Retrofit.
 - 3) Give full form: API.
- Que. 3 (B) Answer any two (06)
- 1) What is the usefulness of REST API in developing Android applications?
 - 2) Describe the purpose of the SQLiteOpenHelper class in Android.
 - 3) Explain in detail the importance of Content Provider in Android Application.
 - 4) List various Android data storage APIs. Explain any one in detail.
- Que. 3 (C) Answer any one (05)
- 1) Explain in detail how to perform basic CRUD operations on an SQLite database in an Android application.
 - 2) Explain in detail how Android applications use SQLite for data storage.
- Que. 4 (A) Attempt the following. (03)
- 1) What is Geocoding?
 - 2) True/False: A marker on a Google Map is used to show a specific geographic location on the map.
 - 3) Define the Android Telephony API.

- Que. 4 (B) Answer any two (06)
- 1) Describe the Android Networking API and its importance for app development.
 - 2) Explain how an Android application can notify the user using the status bar.
 - 3) Explain the usefulness of GPS in Android applications.
 - 4) Write a short note on: Android Web API.
- Que. 4 (C) Answer any one. (05)
- 1) Explain by giving example: how Android applications use JSON data with a remote MySQL database.
 - 2) Explain various location-based services in Android.
- Que. 5 (A) Attempt the following. (03)
- 1) Give full form: MVC.
 - 2) True/False: Cocoa Touch is the set of frameworks used for Android app development.
 - 3) _____ is the visual editor in Xcode used to design an app's screens and their transitions.
- Que. 5 (B) Answer any two. (06)
- 1) Explain the role of Xcode IDE in developing an iOS application.
 - 2) Write basic steps to add UI controls such as Button and Text Field to an iOS view in Xcode.
 - 3) Explain the importance of Cocoa Touch in application development.
 - 4) What is StoryBoard? How is it useful in app development?
- Que. 5 (C) Answer any one (05)
- 1) Discuss the Model-View-Controller (MVC) architecture in iOS app development.
 - 2) Explain the complete process of creating and building a simple iOS application in Xcode.
