

M.Sc.(IT & CA) Semester - 2 (CBCS) Examination
March/April – 2025 (As Per Syllabus Year-2023)
Application Development using Advance Android (Core)

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) Answer following Questions [03]
- 1) Which method is called when an activity becomes visible to the user?
 - 2) Which file contains essential information about an Android app, such as permissions, activities, and services?
 - 3) Which Android class is used to play audio files?
- Que.1(B) Answer Any Two [06]
- 1) Explain core building blocks of Android.
 - 2) Explain Array list Adaptor & Base Adaptor.
 - 3) Explain Alarm Manager.
 - 4) Explain how to record and play audio
- Que.1(C) Answer Any One [05]
- 1) Write short note on different types of views.
 - 2) Write short note on how to capture, configure, mode settings, parameter settings, zooming in camera.
- Que.2(A) Answer following Questions [03]
- 1) What is the default mode when accessing Shared Preferences?
 - 2) Which of the following permissions is required to write data to external storage in Android?
 - 3) Which class helps in managing SQLite databases in Android?
- Que.2(B) Answer Any Two [06]
- 1) Explain shared preferences.
 - 2) Explain internal storage and external storage.
 - 3) Explain how to send and receive broadcast.
 - 4) Explain how notifying users with status bar.
- Que.2(C) Answer Any One [05]
- 1) Write short note on content provider.
 - 2) Explain insert, update, and delete operations using SQLite.
- Que.3(A) Answer following Questions [03]
- 1) Which class is used to manage all Bluetooth-related tasks in Android?
 - 2) The Sensor Event Listener interface contains which two callback methods?
 - 3) What role does a Java Servlet play in a RESTful web service?
- Que.3(B) Answer Any Two [06]
- 1) Explain how to work with Wi-Fi in Android application.
 - 2) Explain Motion Sensor and Position Sensor.
 - 3) Explain SOAP v/s Restful Web services.
 - 4) Explain how to verify data in Android with external database.

- Que.3(C) Answer Any One [05]
- 1) Explain Different classes used with Sensor. Explain Sensor Event listener Interface.
 - 2) Explain how to read sensor data, calibrating sensors & determining device orientation.
- Que.4(A) Answer following Questions [03]
- 1) Which class is used to check the current network connection status in Android?
 - 2) Which Android class is used to manage Wi-Fi connections?
 - 3) In Retrofit, what data format is commonly used for API responses?
- Que.4(B) Answer Any Two [06]
- 1) Write a program to start and stop Wifi.
 - 2) Explain Bluetooth Adapter Class.
 - 3) Write a code to check internet availability or not.
 - 4) Explain how to manage Wifi Networks.
- Que.4(C) Answer Any One [05]
- 1) Explain how to communicate with Bluetooth.
 - 2) Explain to get JSON from server using Retrofit Call perform insert, update, delete using PHP-MySQL server.
- Que.5(A) Answer following Questions [03]
- 1) Which Android class is used to listen for location updates in real time?
 - 2) To add custom graphics, markers, or information layers on the map ____ is used in Google Map.
 - 3) What is the file format for an Android app package?
- Que.5(B) Answer Any Two [06]
- 1) Explain how to display Google Map in Activity?
 - 2) What is Geocoder?
 - 3) Explain Location Manager.
 - 4) How to drawing on screen using canvas and paint. Write a code to draw a line.
- Que.5(C) Answer Any One [05]
- 1) Write steps how to publish Android Application on playstore?
 - 2) Write code to find current location and how to listen for changes in current location.
