

M.Sc.(IT & CA) Semester - 2 (CBCS) Examination**March/April – 2025 (As Per Syllabus Year-2018)****APPLICATION DEVELOPMENT USING ADVANCED 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 of layout arranges child views in a single row or column?
 - 2) _____ file is acts as a reference to all resources in the res folder
 - 3) Which Android component allows playing both audio and video files?
- Que.1(B) Answer Any Two [06]
- 1) Explain Basic UI Widgets.
 - 2) Explain manifest.xml and R.java file.
 - 3) Explain web view and search view.
- Que.1(C) Answer Any One [05]
- 1) Write short note on types of adapters.
 - 2) Write short note on how to manage and configure camera in android application.
- Que.2(A) Answer following Questions [03]
- 1) Which method is used to insert data into an SQLite database in Android?
 - 2) Which file system does Android use primarily for internal storage?
 - 3) Which method is used to update a row in an SQLite database?
- Que.2(B) Answer Any Two [06]
- 1) Explain Android file system.
 - 2) Explain how to create content provider?
 - 3) Explain internal and external storage.
- Que.2(C) Answer Any One [05]
- 1) Explain how to give notifications to users? Explain different notification methods.
 - 2) Write short note on SQLiteOpenHelper class with example.
- Que.3(A) Answer following Questions [03]
- 1) How can you discover nearby Bluetooth devices?
 - 2) Which Android class is used to access and manage sensors?
 - 3) What data formats are commonly used in RESTful web services?
- Que.3(B) Answer Any Two [06]
- 1) Explain how to work with Bluetooth in android application.
 - 2) Explain Position Sensor and Environmental Sensor.
 - 3) Explain Compass, Accelerometer and Orientation Sensor in Android.
- Que.3(C) Answer Any One [05]
- 1) Explain Android Restful Web service example with java servlet.
 - 2) Explain Sensor Manager, Sensor, Sensor Event class in detail.
- Que.4(A) Answer following Questions [03]
- 1) Which Android permission is required for an app to access the internet?
 - 2) Which method is used to enable Bluetooth programmatically in Android?
 - 3) What annotation is used in Retrofit to define a GET request?

- Que.4(B) Answer Any Two [06]
- 1) Explain how to monitor and manage internet connectivity.
 - 2) Explain how to manage and work with Wifi networks.
 - 3) Explain how to discovering and bonding with Bluetooth devices.
- Que.4(C) Answer Any One [05]
- 1) Explain to get JSON from server using Retrofit Call perform insert, update, delete using PHP-MySQL server.
 - 2) Explain how to manage and communicate with Bluetooth devices from android application.
- Que.5(A) Answer following Questions [03]
- 1) Which class is used to draw graphics on the screen in Android?
 - 2) Which method is used to set the color of a shape when drawing with Canvas?
 - 3) Give full form of LBS.
- Que.5(B) Answer Any Two [06]
- 1) Explain Signature Certificate.
 - 2) What is Map Overlays?
 - 3) Explain how to work with bitmap and shapes?
- Que.5(C) Answer Any One [05]
- 1) Explain 2D Animation with example.
 - 2) How to find current location and listing for changing in current location.
