

**M.Sc.(IT & CA) Semester - 2 (CBCS) Examination**  
**March/April – 2024 (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) The Android \_\_\_\_\_ is an XML file which contains important metadata about the Android app.
  - 2) \_\_\_\_\_ is the first callback and called when the activity is first created.
  - 3) \_\_\_\_\_ is a view that display web pages inside your application.
- Que.1(B) Answer Any Two (06)
- 1) Explain ArrayAdapter and ArrayListAdapter.
  - 2) Explain Alarm Manager.
  - 3) Explain basic UI Widgets in Android.
  - 4) Explain how to capture picture and configuring camera mode setting.
- Que.1(C) Answer Any One (05)
- 1) Write short note on Views.
  - 2) Explain with example how to record and play video.
- Que.2(A) Answer following Questions (03)
- 1) \_\_\_\_\_ mode will append the new preferences with the already existing preferences
  - 2) \_\_\_\_\_ will opens the existing database but it does not define any handler to handle the errors of databases
  - 3) \_\_\_\_\_ receivers enable applications to receive intents that are broadcast by the system or by other applications, even when other components of the application aren't running
- Que.2(B) Answer Any Two (06)
- 1) Explain Android File System.
  - 2) Explain SQLiteOpenHelper.
  - 3) Explain with example how to access inbuilt content provider.
  - 4) Explain how to send and receive broadcast?
- Que.2(C) Answer Any One (05)
- 1) Write short note on Shared Preferences.
  - 2) Explain with example: how to notify the user and notify with status bar.
- Que.3(A) Answer following Questions (03)
- 1) After Bluetooth is activated, to discover paired or available Bluetooth devices, use the Bluetooth Adapter instance's method as an asynchronous call.
  - 2) \_\_\_\_\_ Sensors are used to measure acceleration forces and rotational forces along with three axes.
  - 3) The \_\_\_\_\_ class provides methods to get information of the sensor such as sensor name, sensor type, sensor resolution, sensor type etc.
- Que.3(B) Answer Any Two (06)
- 1) Explain how to established Bluetooth connection between devices.
  - 2) Explain SOAP v/s Restful Web Service.
  - 3) What is Motion Sensor, Position Sensor and Environmental Sensor?
  - 4) Explain with example how to work with WiFi?

- Que.3(C) Answer Any One (05)
- 1) Explain different classes and interfaces used with Sensors.
  - 2) Explain how to work with external databases in android.
- Que.4(A) Answer following Questions (03)
- 1) \_\_\_\_\_method add a new network description to the set of configured networks.
  - 2) \_\_\_\_\_ method changes the Bluetooth name
  - 3) \_\_\_\_\_Android provides class to communicate with Bluetooth.
- Que.4(B) Answer Any Two (06)
- 1) Explain Retrofit Parsing.
  - 2) Explain how to manage and communicate with Bluetooth devices.
  - 3) Explain how to manage and monitor internet connectivity.
  - 4) Explain methods used to manage WiFi.
- 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) Write a program to start and stop WiFi.
- Que.5(A) Answer following Questions (03)
- 1) The \_\_\_\_\_ object represents a geographic location which can consist of a latitude, longitude, time stamp, and other information
  - 2) The class provides a way to draw markers and layovers on top of a Map View.
  - 3) Give full form of LBS.
- Que.5(B) Answer Any Two (06)
- 1) What is signature certificate?
  - 2) Explain with example: How to display google map in activity?
  - 3) What is Geocoder?
  - 4) Write a program to draw a line on screen.
- Que.5(C) Answer Any One (05)
- 1) How to distributing android app via goggle map?
  - 2) Explain 2D Animation.

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