

M.Sc.(IT & CA) Semester - 2 (CBCS) Examination
March/April – 2026 (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.

Que.1(A)	Answer the following questions	(03)
	1. Which Android class is used to play audio files? 2. _____ is the first callback and called when the activity is first created. 3. _____ is invoked when the activity is becoming visible to the user.	
Que.1(B)	Answer the following questions (ANY TWO)	(06)
	1. Explain Alarm Manager. 2. Explain how to record and play audio. 3. Write short note on Camera API. 4. Explain core building blocks of Android.	
Que.1(C)	Answer the following questions (ANY ONE)	(05)
	1. Explain any three Base adaptor Views. 2. Explain Array adaptor and Array List adaptor.	
Que.2(A)	Answer the following questions	(03)
	1. What is the role of SQ Lite Open HelperClass? 2. Which class is used for generating notification? 3. _____ is the basic database of android.	
Que.2(B)	Answer the following questions (ANY TWO)	(06)
	1. What are Shared Preferences? Explain it. 2. Explain broadcast receiver. 3. Explain how to generate notification in android. 4. Explain internal storage and external storage.	
Que.2(C)	Answer the following questions (ANY ONE)	(05)
	1. Explain content provider. 2. Explain insert, update and delete operations.	
Que.3(A)	Answer the following questions	(03)
	1. Which function returns the sensor's name as a string? 2. What is the use of WiFi in Android? 3. _____ class provide sensor in android.	
Que.3(B)	Answer the following questions (ANY TWO)	(06)
	1. Explain Orientation Sensors with suitable example. 2. Explain different classes and interfaces used with Sensors. 3. Explain how to verify data in Android with external database. 4. Explain how to work with Sensor API?	
Que.3(C)	Answer the following questions (ANY ONE)	(05)
	1. Explain SOAP and Restful Web services. 2. Explain how to work with external databases in android.	
Que.4(A)	Answer the following questions	(03)
	1. Which method changes the Bluetooth name? 2. What is JSON? 3. _____ permission is required for Accessing internet.	

- Que.4(B) Answer the following questions (ANY TWO) (06)
1. What is JSON parsing explain in detail.
 2. Write code to check network connection.
 3. Explain Managing active connections.
 4. Write a code to check internet availability or not.
- Que.4(C) Answer the following questions (ANY ONE) (05)
1. Explain to get JSON from server using Retrofit Call perform insert and delete using PHP-MysQL server.
 2. Explain Bluetooth Adapter class.
- Que.5(A) Answer the following questions (03)
1. _____ is a container (or surface) used to draw 2D graphics in Android.
 2. What is LBS?
 3. _____ is the process of transforming a street address or other description of a location into a (latitude, longitude) coordinate.
- Que.5(B) Answer the following questions (ANY TWO) (06)
1. How to distribute Android app via google play store.
 2. Explain Working with bitmap and shapes.
 3. What is signature certificate?
 4. Explain with example: How to display google map in activity?
- Que.5(C) Answer the following questions (ANY ONE) (05)
1. Explain 2D Animation.
 2. Explain Map Overlays.
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