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B.C.A. T.Y (Sem – V)  
Examination October-2023  
Advanced Mobile Computing

Seat No:

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[Time: Three hours]

[Max. marks: 70]

- Instructions:-**
1. All questions are compulsory.
  2. Figure to the right indicate full marks.
  3. Mention your options clearly.

<b>Student's Signature</b>
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**Q.1 Answer the following question (Any Seven)**

14

1. What is the purpose of init block in Kotlin?
2. Discuss var and val.
3. Which class is used to capture image using device camera?
4. How to fix Gradle issues?
5. What is Getter?
6. Give example to create JSON array.
7. Discuss Nullable variable.
8. Define Named parameter.
9. What are the different types of constraints available in android studio?
10. List methods of cursor.

**Q.2 Answer the following in detail (Any Two)**

14

1. How to create, modify and access list in Kotlin? Discuss in detail.
2. Explain if and when of Kotlin. Also discuss difference between if and when.
3. Write a short note on constructor.

**Q.3 Answer the following in detail (Any Two)**

14

1. How to implement inheritance in Kotlin? Explain with example.
2. How to create properties and methods in Kotlin class? Also discuss how to call methods with example.
3. Explain activity life cycle in detail.

**Q.4 Answer the following in detail (Any Two)**

14

1. What is logcat tool? How to logging the activity lifecycle.
2. How JSON is useful? Discuss difference between JSON and XML.
3. Write an short note on JSON Object.

**Q.5 Answer the following in detail (Any Two)**

**14**

1. What is intent? Discuss types of intent in detail.
2. Write a short note on SQLiteOpenHelper class.
3. How to access user's current location? Discuss in detail.