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Total No. of Questions: [09]

Total No. of Printed Pages: [01]

BCA (Semester – 4th)
ANDROID APPLICATION DEVELOPMENT
Subject Code: BCAP1418
Paper ID: [160118]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

- Q1. Attempt the following:
- a. What is an Activity in Android?
 - b. What is the role of the AndroidManifest.xml file?
 - c. How can you pass data between activities in Android using Intent?
 - d. What is an AsyncTaskLoader?
 - e. What is the primary purpose of Google API Explorer?
 - f. Explain the role of content provider.
 - g. What are Data sharing options available in android?
 - h. What is event triggering in Android development?
 - i. How can you set default text for an EditText control in Android XML layout?
 - j. Explain the difference between a theme and a style in Android.

Section – B

(5 marks each)

- Q2. Differentiate between Implicit and Explicit Intents.
- Q3. Describe the steps involved in creating and displaying a basic AlertDialog in an Android application.
- Q4. Explain the purpose of a BroadcastReceiver in Android, and how can it be used to trigger events or tasks?
- Q5. Develop an Android app that takes user input (e.g., name) and displays it in a TextView.
- Q6. How can you perform CRUD (Create, Read, Update, Delete) operations using SQLite in an Android app?

Section – C

(10 marks each)

- Q7. Compare and contrast Linear Layout and Relative Layout in Android. Provide examples of scenarios where each layout type would be more suitable.
- Q8. Explain how themes and styles are applied to UI elements in Android layouts and views. Discuss techniques to applying themes directly in XML layouts, applying styles using the style attribute, and applying themes programmatically.
- Q9. Explain the concept of background tasks in Android and the role of AlarmManager in scheduling and executing tasks in the background. Discuss the scenarios where background tasks and AlarmManager are commonly used in Android applications.