**BCA / BCA - HR**

**Batch - 2022-25 Semester - V**

**Course Code - Course Name - Mobile Programming**

**Date:**   **Maximum Marks: 60**

**Day:  Time:**

**SET I**

**Instructions: 1. Attempt all the questions.**

**2. All questions carry equal marks.**

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Q.1 What Is Mobile Application Development, Its Importance, and Its Types [10 Marks][CO 1]

Q.2 Explain any 5 Android operating system versions, discussing their key features, improvements, and impact on user experience and performance. [10 Marks][CO 2]

Q.3 What are Android components? Explain each Android component in detail, describing their roles and functionalities. [8 Marks][CO 3]

Q4. Explain what an Android UI Development Framework is and describe its key components. [8 Marks][CO 4]

Q5. Explain the concept of events in Android. Discuss their importance and the different types of events commonly used in Android development. [8 Marks][CO 5]

Q6. Evaluate the similarities and differences between Android and iOS development regarding programming languages, development environments, user interface design, and app distribution. Offer an in-depth comparison for each of these aspects. [8 Marks][CO 6]

Q.7 What is the Android Runtime (ART)? Explain its role in the Android operating system, how it differs from Dalvik, and its impact on application performance. Provide a detailed comparison and explanation. [8 Marks][CO 7]

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