

(Please write your Exam Roll No.)

Exam Roll No. ....

# END TERM EXAMINATION

SIXTH SEMESTER [BCA] JUNE- 2024

Paper Code: BCAT-318

Subject: Mobile Application Development

Time: 3 Hours

Maximum Marks: 75

Note: Attempt all questions as directed. Internal Choice is indicated.

- Q1 Attempt any **five** of the following questions. (5x5=25)
- Explain the brief history of mobile applications. Discuss the different types of mobile applications.
  - Explain the anatomy of an Android application.
  - How to create a first Android application? Explain the project organization and the steps involved in setting up a real Android device and emulator.
  - Discuss the Android terminologies such as Application Context, Activities, Services, and Intents.
  - Describe the concept of Adaptive and responsive user interfaces in Android. Explain the User Input Controls and Menus.
  - Define Android Application Components. Discuss the usage of App Widgets, Processes and Threads, and User Interface Components.
- Q2 Discuss the importance of Android Application Design Essentials. Explain the steps to develop a simple user interface in Android. (12.5)
- OR**
- Q3 Explain the concept of Receiving and Broadcasting Intents in Android. How can Intent Filter be used in Android applications? Discuss the permissions in Android. (12.5)
- Q4 Discuss the usage of Drawables, Themes and Styles in Android. Explain Fragments and their life cycle. (12.5)
- OR**
- Q5 What are Dialogs and Menus in Android? How are Notifications and Toasts implemented in Android applications? (12.5)
- Q6 Explain the usage of Broadcast receivers and Services in Android. How can Alarm managers be utilized in Android applications? (12.5)
- OR**
- Q7 Discuss the basic sensors in Android. Explain the working of Location services and Google Maps API in Android applications. (12.5)
- Q8 Discuss the concept of Content Providers and Content Resolver in Android. How can data be shared between applications using Content Providers? (12.5)
- OR**
- Q9 Describe the common Android APIs such as Android Data and Storage APIs, Android Networking APIs, Android Web APIs, and Android Telephony APIs. Discuss the deployment process of Android applications. (12.5)

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