

BCA 6th Sem Assignment

Paper : Mobile Application development Assignment

Pandu College, Guwahati

1. What is the primary purpose of Mobile Application Development?

- A. Designing websites
- B. Creating software for mobile devices
- C. Managing databases
- D. Developing operating system

2. Which of the following is an example of a Mobile Operating System?

- A. Windows Server
- B. Linux Mint
- C. Android
- D. Oracle

3. What is Cross-Platform Application Development?

- A. Developing apps only for Android
- B. Developing apps only for iOS
- C. Developing apps that run on multiple platforms
- D. Developing web applications

4. Which of the following is used for Native Android Development?

- A. Python
- B. Java/Kotlin
- C. PHP
- D. HTML

5. What is the function of Android Studio?

- A. Database management
- B. Mobile browser
- C. Integrated Development Environment (IDE) for Android
- D. Antivirus software

6. Which folder contains UI layout files in an Android project?

- A. java
- B. manifest
- C. res
- D. gradle

7. What is the role of the Android Manifest file?

- A. Stores images
- B. Defines app structure and permissions
- C. Contains Java code
- D. Manages UI layout

8. Which method is called when an Android activity starts?

- A. onPause()
- B. onStop()
- C. onCreate()
- D. onDestroy()

9. Which UI component is used to display a scrollable list of items efficiently?

- A. TextView
- B. Button
- C. RecyclerView
- D. ImageView

10. What is the purpose of Intent in Android?

- A. Store data
- B. Connect database
- C. Enable communication between components
- D. Design UI

Q11. Answer the questions in one/two sentences.

- a. Define Mobile Application Development. .
- b. What is Android Studio?
- c. What is APK?
- d. Which file contains permissions and configuration details of an Android app?
- e. Name any one Android hardware feature used in mobile applications.
- f. What is CRUD operation?
- g. What is the purpose of an API in mobile applications?

Q12. Answer the questions briefly:

- a. Differentiate between native and cross-platform mobile application development.
- b. Explain any two components of a mobile application.
- c. What is Android OS? Mention any two features of Android.
- d. Write the steps to create a simple Android application in Android Studio.
- e. Explain the role of XML in Android UI design.
- f. Explain any two hardware features used in Android application development.
- g. What is Flutter and Dart?
- h. Differentiate between local databases (SQLite) and remote databases.
- i. What is an API? How is it used in Android applications?

Q13. Answer the questions:

- a. Explain the fundamentals of Mobile Application Development. Discuss different types of mobile applications with their advantages and disadvantages.
- b. Describe the architecture of the Android Operating System. Explain the main components involved in an Android application.
- c. What are Activities in Android? Explain the Android Activity Lifecycle with a diagram. Describe the role of major lifecycle methods such as onCreate(), onStart(), onResume(), onPause(), onStop(), and onDestroy().
- d. Discuss various UI components and layouts in Android. Explain the role of XML in designing user interfaces with suitable examples.
- e. What is Firebase? Explain insert operations in Android using SQLite and Firebase remote databases.
- f. What is JSON? Discuss how JSON is used for data exchange.

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