S.No. : 88

No. of Printed Pages : 04

NVC14231

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 51127 Roll No. 1 2 3 0 2 6 0 2 8

BCA Examination 2024-25

(Even Semester)

MOBILE APPLICATION DEVELOPMENT

Time : Three Hours] *[Maximum Marks : 60*

Note :– Attempt all questions.

SECTION–A

1. Attempt all parts of the following: 1×8=8

(a) What is mobile computing, and why is it important?

(b) List two applications of mobile computing.

(c) What are the key features of the Android platform?

(d) What does an Android manifest file contain?

(e) Which Android API is used for accessing telephony features?

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(f) What is the function of an intent in Android?

(g) Define the term "spread spectrum" in communication technologies.

(h) Mention two types of Android APIs commonly used for networking.

SECTION–B

2. Attempt any two part of the following: $6 \times 2 = 12$

(a) Explain the different generations of mobile communication technologies and their evolution.

(b) Describe the different types of multiplexing (SDMA, TDMA, FDMA, CDMA) and their role in communication.

(c) Explain how Android Data and Storage APIs function and their importance in mobile app development.

(d) Discuss the role of content providers in Android and provide an example of their use for data sharing between applications.

SECTION–C

Note:- Attempt any two parts from each question . All part carry equal marks. $8 \times 5 = 40$

3. (a) Explain the 2G, 3G, 4G in mobile communication technologies.

(b) Discuss the process of Android installation and the role of the Android SDK in application development.

(c) Illustrate how permissions and intent filters are used in Android development.

4. (a) Describe the steps involved in designing user interfaces with layouts in Android.

(b) Define Android? Explain Android architecture with neat diagram.

(c) List and explain the challenges of Android app development.

5. (a) Discuss the steps involved in deploying and publishing an Android applicaion, including key developer considerations.

(b) Explain the anatomy of an Android application and the significance of its components, such as activities, services, and intents.

(c) What do you mean by multiplexing? Explain the different multiple access methods.

6. (a) Discuss various IDEs and Editors in Android.

(b) Outline the process of deploying and pulishing an Android application to the world, including the key considerations for developers.

(c) How do Android Web APIs and networking APIs contribute to building modern Android applications?

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