2111000103050003
B.C.A. S.Y (Sem – III)
Examination November-2023
Mobile Application Development - I

Seat No:

Student's Signature

[**Time: Three Hours**]   [**Max. marks: 70**]

Instructions: **(1) All questions are compulsory.**
                      (2) Figures to the right indicate full marks.
                      (3) Mention your options clearly.

Q.1   Answer in short (Any seven)   **[14]**
1. Define Multiplexing and Modulation.
2. What is use of Android Virtual Device?
3. Define Spectrum and Bluetooth techniques.
4. What is the use of drawable and mipmap folders?
5. What is use of styles.xml and strings files?
6. What is use of strings.xml and colors.xml files?
7. How do you perform comments in XML?
8. What are the differences between Dalvik Virtual Machine vs. Android Runtime?

Q.2   Do as directed (Any two)   **[14]**
1. Explain the android architecture with a relevant diagram.
2. Discuss features of Android in detail.
3. What is use of Activities? Discuss Android Activity lifecycle with suitable figure.

Q.3   Do as directed (Any two)   **[14]**
1. Discuss Wireless Application Protocol in detail.
2. What is use of Layout? Explain Table Layout with suitable example?
3. What are the key characteristics of XML?

Q.4   Do as directed (Any two)   **[14]**
1. What is use of Manifest File? Discuss various elements of the Manifest File.
2. Explain Dalvik Virtual Machine with suitable figure.
3. Discuss various widgets of Android with suitable example.

Q.5   Do as directed   **[14]**

1. How do you display a message on a Toast in an Android application?

<div align="center">**OR**</div>

1. What are the steps to hide the Title bar in an Android app?

2. Discuss the functionality and usage of CheckBoxes in Android applications.

<div align="center">**OR**</div>

2. Explain the process to display notifications in Android?