

Nirma University
Institute of Technology
Sessional Exam (IR), October- 2023
B.Tech. in Computer Science and Engineering (CSE), Semester- VII
2CSDE76 Mobile Operating Systems

Roll/
Exam No

Supervisor's initial
with date [Signature]

Time: 2 Hour

Max Marks: 50

Instructions:

- i) *Attempt all questions.*
- ii) *Figures to the right indicate full marks.*
- iii) *Draw neat sketches wherever necessary.*
- iv) *Assume necessary data wherever required.*

Q.1 Do as directed. [15]

- A Illustrate the lifecycle of Android Activity with necessary diagram. (05)
CO 3
BL 2
- B Write the code snippet in Android to show the interaction between two (07)
CO 2 different activities through the intents i.e. pass values from first activity
BL 3 to second activity, and also show to send back the result to first activity.
- C Discussed about role of Manifest file? Justify with suitable example. (03)
CO 1
BL 3

Q-2 Do as directed. [20]

- A Write a code snippet in Android to design a camera application which (05)
CO 3 demonstrate how to capture an image.
BL 3
- B Discussed about any four mobile device security vulnerabilities and (05)
CO3 explain its about risk mitigation.
BL 2
- C Discuss the following issues in wireless network with suitable diagram. (05)
CO 3 (i) Hidden and exposed terminals
BL 2 (ii) Near and far terminals
- D Discussed the following UI layout with suitable syntax. (05)
CO 1 (i) Linear Layout (ii) Relative layout (iii) Constraint layout (iv) Frame
BL 2 layout (v) Table layout

Q-3 Do as directed.

[15]

- A Illustrate Secure Software Development Life Cycle (Secure-SDLC) to (05)
CO2 build security in application development process with a diagram.
BL2
- B. Write a code snippet in Android to design user registration form with (05)
CO 3 GUI components that contain name, age, address, Aadhar details with
BL 3 submit and rest button.
- C Discussed about the functionality of DFWMAC-DCF with RTS/CTS (05)
CO 3 extension using suitable diagram.
BL 3