

National Forensic Sciences University
School of Cyber Security and Digital Forensics

Course Name: M.Sc. Cyber Security/M. Tech. AI&DS (Batch: 2024-26)

Semester - II

Subject Code: CTMSCS SII P3/CTMTAIDS SII P2

Time: 3.30 PM to 5.00 PM

Subject Name: M.S. / M.S.F

Total Marks: 50

Exam: Mid-Semester Examination (March - 2024)

Date: 21-Mar-2025

Instruction:

1. Start the Question from a new page.
2. Write the answer to the question to the point and discuss the code if needed.

Q1. Answer the following questions in short. (Attempt any 5)

[25 Marks]

- 1) Write down five ADB commands and their purpose in one line.
- 2) Describe the Android Boot Process in detail.
- 3) What is path traversal vulnerability and how do you test it?
- 4) Is it possible to access the content of the database or external file directly through ADB or using some other exploit? Discuss the attack with an example.
- 5) How to pen-test the unprotected content provider/ leakage.
- 6) Discuss the concept of Sandboxing in Android Applications. Also, give advantages for the same.

Q2. Answer the following questions in detail. (Attempt any 2)

[16 Marks]

- 1) How do you test exported activity using am or drozer?
- 2) Discuss your approach to carrying out the Mobile Security Pen-Testing.
- 3) Describe the Android Application Components and their role in any Android application.

Q3. Answer the following questions in detail. (Attempt any 1)

[09 Marks]

1. Describe the Android Partitions and Android File System in detail with the importance of each directory.
2. Describe the concept of Content Provider in Android Applications with appropriate examples and explain the Application permission role.