



## National Forensics Sciences University, Goa Campus Mid Semester Examination

Branch – M.Sc. Cyber Security /M.Tech. A.I. & D.S.

Sem – II

Date- 19/03/2025

Subject Name - Mobile Security /Mobile Security and Forensics

Subject Code - CTMSCS SII P3 / CTMTAICS SII P2

Time- 1.5 Hours

Marks- 50

Instructions - 1) Answer all questions. 2) Assume suitable data.

Q.1	Solve any four	20 marks
	a. What is Application Permission? Explain different types of Application permission protection level	5 marks
	<i>Chhaya</i> b. What is application sandboxing? Why it is important for mobile security?	5 marks
	c. What is Pen-testing? Explain different strategies for Pen-Testing.	5 marks
	d. What is Secure Inter Process Communication?	5 marks
	<i>a</i> e. Explain Android File systems in detail.	5 marks
Q.2	Attempt all	15 marks
	a. Discuss Android Boot Process. Explain the steps involved in the boot process. <del>the binder framework</del>	5 marks
	<i>Star</i> b. Use a pictorial representation to describe the android architecture.	5 marks
	<i>Star</i> c. What is ADB Command? Explain 5 ADB Commands in detail.	5 marks
Q. 3	Attempt a and b	15 marks
Q.3 a	Attempt any one	
Q.3 a	I) Explain the OWASP top 10 vulnerabilities for Mobiles?	8 marks
	OR	
	• II) What is Hexdump? Explain the important features of Hexdump.	8 marks
Q.3 b	Attempt any one	7 marks
Q3 b	I) Explain the difference between DALVIK and SMALI.	
	OR	
	<i>Star</i> ii) What is reverse engineering? What are the steps involved in reverse engineering of a software	7 marks