National Forensics Sciences University, Goa Campus
Mid- semester Examination

Branch – M.Sc. Cyber Security / M.Tech. AI & DS	
Sem – 3	
Date - 11-02-2025	
Subject Name - Mobile Security / Mobile Security and Forensics	
Subject Code - CTMSCS SII P3/ CTMTAIDS SII P2	
Duration: 45 Min	
Max. Marks- 25	
Instructions - 1) Answer all questions. 2) Assume suitable data.	

Q.1	Multiple Choice Questions (1 mark each)	10 marks

	i. Android was developed by the:
	      a. Open Handset Alliance (OHA)
	      b. Close Handset Alliance
	      c. International Android organization
	      d. ✓ None of the above
		1 mark

	ii. Which of the following is not the part of application framework?
	      a. Content provider
	      b. View System
	      c. Resource Manager
	      d. ✓ Surface Manager
		1 mark

	iii. What is the main purpose of the Linux Kernel in Android architecture?
	      a. To provide UI component.
	      b. To manage application lifecycle.
	      c. ✓ To handle memory management, drivers, and security.
	      d. To provide APIs for app development
		1 mark

	iv. Activity Manager lies in which layer of android architecture?
	      a. Kernel
	      b. Libraries
	      c. ✓ Application Framework
	      d. Applications
		1 mark

	v. Which component of Android architecture provides core system services like telephony and resource management?
	      a. ✓ Application Framework.
	      b. Android Runtime.
	      c. Linux Kernel.
	      d. Libraries
		1 mark

	vi. Android's native libraries are written in:
	      a. JAVA
	      b. ✓ C or C++
	      c. Python
		1 mark

		d. Perl	

	vii.	Which is not an Android Application Components:
		    a. Activity
		    b. Service
		    c. Content
		    d. Assembler
			1 mark

	viii.	Which of the following is NOT a part of the Android Application Framework?
		    a. Activity Manager.
		    b. Window Manager.
		    c. SQLite.
		    d. Content Providers
			1 mark

	ix.	Which is not a type of intent
		    a. Explicit
		    b. Implicit
		    c. None
			1 mark

	x.	What is the role of the Android Runtime (ART) in Android architecture?
		    a. Provides libraries for app development.
		    b. Executes and optimizes Android applications.
		    c. Manages low-level system processes.
		    d. Handles the UI rendering
			1 mark

Q.2		Answer any 3 questions (3x5 marks each)	15 Marks
	i.	What is ADB? Explain any five ADB commands.	5 marks
	ii.	What is Android. Explain the architecture of Android with the help of a diagram	5 marks
	iii.	What are different managers in Android Application Framework? Briefly describe any five of them.	5 marks
	iv.	Explain OWASP top 10 vulnerabilities for Mobile.	5 marks