NATIONAL FORENSIC SCIENCES UNIVERSITY M.Sc. Cyber Security - Semester - 11 - Aug-2022

Subject Code: CTMSCS SH P3 Subject Name: Mobile Security Time: 11:00 AM to 2:00 PM

Date: 03/08/2022

Total Marks: 100

21

16

24

Instructions:

- 1. Write down each question on a separate page.
- 3. Make suitable assumptions wherever necessary.
- 4. Figures to the right indicate full marks.

		initiation.	
84	(b) Write	the ADB commands? short notes on android content provider?	Marks
	(e) Explai	in increase on android content provider?	05
	C. Carlina	in insecure logging and hardcoding issues?	95
96	(a) Explai	in Android Marie	05
	offit Write	short notes on reverse	
		short notes on reverse engineering in android application	05
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l		5.5 (1.18.) (1.18.) (1.18.) (1.18.) (1.18.) (1.18.)	
	(c) Explai using	n MobSF (Mobile Security Framework) in detail? in the Android application security vulnerability asset	14
/	using	QARK? Android application security vulnerability asset	ssment

Attempt Any 3 Questions (7 Marks each)

- (a) Explain Android Boot Process in Detail?
- (b) Differentiate Static Analysis Vs Dynamic Analysis?
 - Explain Security Auditing with Drozer?
- Explain Mobile Application Security Pen-Testing Strategy?

Attempt Any 2 Questions (8 Marks each)

- Explain OWASP Top-10 vulnerabilities for Mobiles?
- (b) What is application permission? List types of permission. Write a step to request permission.
- Explain the Frida and Objection framework for android dynamic

Attempt Any 3 Questions (8 Marks each)

- Explain Jadax, Jdgui, and Dexdump reverse engineering process?
- Explain Android Partitions and File Systems?
- Explain inter-process communication of android applications?
- Explain android traffic passive analysis and active analysis?

END OF PAPER