

*May-June 2023*

B.Tech ) Program: EXTC/IT/COMPUTER/AIDS  
 Examination: TY Semester: V  
 Course Code: HCSC501 Course Name: ETHICAL HACKING (Honors)  
 Duration: ~~02~~ Hours 2.5 Max. Marks: 60

Instructions:  
 (1) All questions are compulsory.  
 (2) Draw neat diagrams wherever applicable.  
 (3) Assume suitable data, if necessary.

		Max. Marks	CO	BT level
Q 1	<b>Solve any six questions out of eight:</b>	12		
i)	what are the concepts of hardware elements and end points security to provide security to physical devices	2M	4	U
ii)	Differentiate between public key encryption and private key encryption?	2M	2	U
iii)	Explain OPEN VAS in network security.	2M	3	U
iv)	Explain side channel attacks on Honeypots	2M	6	U
v)	Explain format string attack.	2M	4	U
vi)	Explain steps of ethical hacking following real world	2M	1	U
vii)	Explain IoT security	2M	5	U
viii)	What do you mean by Denial of service attack	2M	4	U
Q.2	<b>Solve any four questions out of six.</b>	16		
i)	Discuss the various tools for Network Security	4M	CO3	U
ii)	Explain Quantum cryptography and elliptic cryptography	4M	CO2	U
iii)	Explain Web Bugs and Sniffing	4M	CO4	U
iv)	Analyze the Protocol vulnerabilities	4M	CO1	An
Q.3	<b>Solve any two questions out of three.</b>	16		
i)	Explain steganography and cryptography and how both are different? ) What are types of steganography?	8M	CO2	U
ii)	Explain Dos Attack in web security with real time examples.	8M	CO4	U

v> Explain session hijacking & man in middle attack  
 vi> Explain phishing & pharming technique in web security.

iii)	Demonstrate the concept of Cryptography Hash Function and biometric authentication in detail.	8M	CO3	Ap
Q.4	Solve any two questions out of three.	16		
i)	Explain backdoor and trapdoors in hardware security elements and discuss how it will be prevented ?	8M	CO5	U
ii)	Explain in brief hacking in wireless networks (WEP, WPA, WPA-2).	8M	CO3	U
iii)	Explain in details TCP/IP layers functions and responsibilities	8M	CO1	U

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