

14/12/22

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Honours

K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

Subject Code: HCSC501 Subject Name: Ethical Hacking date :14/12/22

April – May 20/ Nov – Dec 2022				
(B.Tech / M.Tech.) Program: <u>Honours Program in Cyber Security</u>				
Examination: TY Semester: V Course Code: HCSC501		Course Name: Ethical Hacking		
Duration: 2.5 Hours		Max. Marks: 60		
Instructions:				
(1) All questions are compulsory.				
(2) Draw neat diagrams wherever applicable.				
(3) Assume suitable data, if necessary.				
sr.no.	Question statement	Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	What are the steps of ethical hacking	2	CO1	U
ii)	What do you mean by Private-key encryption	2	CO3	U
iii)	Explain Open VAS	2	CO2	U
iv)	What are the Various attacks scenarios	2	CO6	U
v)	Explain SSL	2	CO4	U
vi)	What do you mean by Denial of service attack	2	CO4	U
vii)	Explain steganography	2	CO3	U
viii)	What do you mean by key Exchange Protocols?	2	CO3	U
Q.2	Solve any four questions out of six.	16		
i)	Analyze the Protocol vulnerabilities	4	CO1	An
ii)	Explain Lightweight cryptographic algorithms.	4	CO3	An
iii)	Discuss the various tools for Network Security	4	CO2	An
iv)	Explain Web Bugs and Sniffing	4	CO4	An
v)	Explain side channel attacks	4	CO5	An
vi)	Explain Firewalls	4	CO5	An
Q.3	Solve any two questions out of three.	16		
i)	Demonstrate the concept of Cross-Site scripting and Request Forgery	8	C04	Apply

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ii)	Illustrate what do you mean by backdoor and trap door in elements of hardware security	8	CO5	Apply
iii)	Show how IP addressing and routing is done in Computer Networks	8	CO1	Apply
Q.4	Solve any two questions out of three.	16		
i)	Demonstrate the concept of Cryptography Hash Function and bio metric authentication in detail	8	CO3	Apply
ii)	Explain in brief hacking in wireless networks (WEP, WPA, WPA-2).	8	CO2	Apply
iii)	Illustrate Various attacks scenarios and their remedies.	8	CO6	Apply
