

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

Nov – Dec 2023

Program: BTECH (COMP/AIDS/IT/EXTC Scheme II

Examination: TY Semester: V

Course Code: HCSC501 and Course Name: Ethical Hacking

Date of Exam: 12/12/2023

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.

		Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	What is IP fragmentation?	2	CO1	U
ii)	What is steganography	2	CO2	U
iii)	List the functionality of “ inurl” search operator?	2	CO3	U
iv)	Describe in short about pharming techniques?	2	CO4	U
v)	What is trapdoors?	2	CO5	U
vi)	Illustrate in short about penetration testing? /	2	CO6	U
vii)	What you mean by the term “Information Gathering”	2	CO4	U
viii)	Define clickjacking	2	CO3	U
Q.2	Solve any four questions out of six.	16		
i)	Explain the process of tunneling?	4	CO1	U
ii)	Draw the basic model of security attacks. Explain the four types of attacks?	4	CO2	U
iii)	Describe about password hash salting with its benefits.	4	CO3	U
iv)	Explain the use of exploit and payload modules of metasploit?	4	CO4	U
v)	Explain the types of attacks performed on hardware?	4	CO5	U

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vi)	How host discovery can be performed using ICMP Sweep?	4	CO6	U
Q.3	Solve any two questions out of three.	16		
i)	Consider a big single network having ip address 200.1.2.0. Divide this network in to three subnets. Use the concept of ip subnetting?	8	CO1	Ap
ii)	Explain the steps in performing web application vulnerability scanning using metasploit with the help of example?	8	CO4	Ap
iii)	List the desirable properties of PUF.How PUF is implemented using SR Latch.	8	CO5	U
Q.4	Solve any two questions out of three.	16		
i)	Demonstrate the steps of performing cross site scripting using DVWA.	8	CO6	Ap
ii)	Demonstrate the steps of performing wifi hacking using cracking method	8	CO3	AP
iii)	Discuss in detail about one way hash function and SHA-12	8	CO2	U
