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

#### Nov - Dec 2024

## (B. Tech) Program: COMP/AIDS/IT/EXTC Scheme IIB

HONOUPS Regular Examination: TY Semester: V

Course Code: HCSC501 and Course Name: Ethical Hacking(Cybersecurity Honors)

Date of Exam: 05/12/24 Duration: 02.5 Hours Max. Marks: 60

#### Instructions:

(1)All questions are compulsory.

(2)Draw neat diagrams wherever applicable.

(3)Assume suitable data, if necessary.

Q. No.	Question	Max. Marks	СО	BT level
Q 1	Solve any two questions out of three: (05 marks each)	10		
a)	What is the purpose of subnetting in a network?		CO1	U
b)	Write a short note on biometric authentication.		CO2	U
c)	What is penetration testing and state it's significance in cyber security.		CO3	U
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	Write a short note on clickjacking.		CO4	U
b).	Describe in short about side channel attacks.		CO5	U
c)	List the different security levels of DVWA & how do they affect testing.		CO6	U
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	What is the role of router in a network. Demonstrate the routing protocols using cisco packet tracer.		CO1	Ap
b)	Demonstrate the use of meterpreter payload with suitable example.		CO3	Ap
c)	Describe the key ethical considerations when perform sqlmap during penetration testing.		CO4	U
Q.4	Solve any <b>two</b> questions out of three. (10 marks each)	20		
a)	What is the purpose of shared prime number p & base g in diffie-hellman. Calculate the secret key exchanged between Alice & Bob using prime value q=17 & primitive root=5. If Alice's secret key is 4 and bob's secret key is 6.		CIO2	Ap
b)	Demonstrate the process of analyzing a DDOS attack in wireshark with		CO3	An

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c)	L- co	type of atta perform uple database	acks perform with SQL injection & enumerate the union-based sql injection to extract data from a c.	U
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