

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

May 2023 (B.Tech) Program: Computer Engineering Scheme :II Examination: TY Semester: VI Course Code: CEDLC6053 and Course Name: Infrastructure Security Duration: 2.5 Hours Max. Marks: 60
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Date: 22-05-2023

Instructions:		Max. Marks	CO	BT level
(1) All questions are compulsory.				
(2) Draw neat diagrams wherever applicable.				
(3) Assume suitable data, if necessary.				
Q 1	Solve any six questions out of eight:	12		
i)	Compare HTTP and HTTPS?	2	CO5	U
ii)	Write short notes on format string vulnerabilities?	2	CO2	U
iii)	Leela comes to you for understanding how she should document the reported incident. What do you tell her?	2	CO6	AP
iv)	Why cloud service providers need to ensure that their interfaces are secure?	2	CO4	AP
v)	Enumeration stage is followed by reconnaissance stage in cyberattacks, comment?	2	CO1	AP
vi)	What is account harvesting?	2	CO5	U
vii)	What is VPN? Enlist its types?	2	CO3	U
viii)	Enlist Software Vulnerabilities? Explain buffer overflow?	2	CO2	U
Q.2	Solve any four questions out of six.	16		
i)	Security training is the first major step toward protecting your organization from cyber-attacks. Do you agree? Why?	4	CO1	AP
ii)	Sam is saying that you should implement monitoring system for protecting your system, what is he referring to? How such solution works?	4	CO2	AN
iii)	Describe the security features provided by mobile device management (MDM) solution?	4	CO3	U

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iv)	What is SAML? Describe the architecture of it?	4	CO4	U
v)	What is OWASP? List and explain in brief the OWASP Top 10 vulnerabilities?	4	CO5	U
vi)	Shreya comes to you asking for general recommendation for effective incident management? What do you tell her?	4	CO6	AP
Q.3	Solve any two questions out of three.	16		
i)	With a block diagram, explain the rules of Bell-LaPadula (BPL) model? What is RADIUS? How it works?	8	CO1	U
ii)	What is IAM in cloud? Explain the various identity access management challenges in cloud?	8	CO4	U
iii)	Briefly explain the privacy risk on the web?	8	CO5	U
Q.4	Solve any two questions out of three.	16		
i)	The new programmers teams joining your company today and you have to tell them guidelines regarding secure coding related to XSS attack how will you explain it?	8	CO2	AP
ii)	What is patch management? Explain the steps involved in it?	8	CO3	U
iii)	What is Business Impact Analysis (BIA)? Why it is considered crucial for the success of overall business continuity planning?	8	CO6	U
