

**K. J. Somaiya Institute of Engineering and Information Technology, Sion,
Mumbai-22**

(Autonomous College Affiliated to University of Mumbai)

End Semester Exam

May - June 2022

(B.Tech/M.Tech.) Program: B.Tech

Examination: TY Semester: VI

Course Code: 1UCEDLC6053 and Course Name: Infrastructure Security

Duration: 03 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 an OS patch?	2	CO 2	U
ii)	What is a meta pixel? Brief about web bugs.	2	CO 2	U
iii)	Define and give example of a web service.	2	CO 5	U
iv)	Define incident management with need of the same?	2	CO 6	U
v)	Define clickjacking and its consequences with an example.	2	CO 2	U
vi)	What is IAM with respect to cloud security?	2	CO 4	U
vii)	Explain business continuity plan with its need?	2	CO 3	U
viii)	Explain with example on account harvesting	2	CO 1	U
Q.2	Solve any four questions out of six.	16		
i)	Define buffer overflow attack, with an example.	4	CO 2	U
ii)	Compare Bell Lapadula and Biba Model.	4	CO 1	U

iii)	Why is Cloud as a Service important?	4	CO 4	U
iv)	Differentiate between Wireshark and snort	4	CO 5	U
v)	Explain VPN in short	4	CO 3	U
vi)	Enlist the four ethical issues in security management	4	CO 6	U
Q.3	Solve any two questions out of three.	16		
i)	Explain in brief about BIBA integrity model.	8	CO 1	U
ii)	Discuss a few phishing and pharming techniques.	8	CO 5	U
iii)	A military based application requires to be deployed to a system which is expected to maintain the highest level of confidentiality, what type of access control measures could be taken for improved security	8	CO 4	U
Q.4	Solve any two questions out of three.	16		
i)	Explain security in GSM.	8	CO 3	U
ii)	what is risk assessment and analysis? How it is useful for a business? Support your answer with the help of an example-based scenario.	8	CO 6	U
iii)	Consider a scenario of a shopping website, what are the possible vulnerabilities w.r.t login module, payment gateway module, cart management module, and what measures can you propose for the same?	8	CO 2	U