

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

Program: B.Tech Scheme II
 Examination: LY Semester: VII
 Course Code: AIDLC7033 and Course Name: Cryptography and Network Security

Date of Exam: 04/12/2023

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.

Q No	CO	Max. Marks	CO	BT level
Q 1		12		
i)		2	CO1	R
ii)		2	CO2	U
iii)		2	CO2	An
iv)		2	CO3	U
v)		2	CO3	U
vi)		2	CO4	U
vii)		2	CO5	U
viii)		2	CO6	R
Q.2		16		
i)		4	CO1	U
ii)		4	CO2	U
iii)		4	CO3	U
iv)		4	CO4	U
v)		4	CO5	U
vi)		4	CO6	U

EXH
CNS

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

Program: B.Tech Scheme II Examination: LY Semester:VII Course Code:AIDLC7033 and Course Name:Cryptography and Network Security		
Date of Exam: 04/12/2023	Duration: 2.5 Hours	Max. Marks: 60

Q.3	Solve any two questions out of three.	16		
i)	Explain in detail the concept of polyalphabetic substitution.	8	CO1	U
ii)	Differentiate between single-factor and multi-factor authentication with examples.	8	CO4	An
iii)	Write a short note on ICMP flood, SYN flood, UDP flood	8	CO5	U
Q.4	Solve any two questions out of three.	16		
i)	What are the key differences between AES and its predecessor, DES (Data Encryption Standard)?	8	CO2	U
ii)	With a block diagram, explain how you can use hashing for ensuring message integrity?	8	CO3	U
iii)	What are the main security concerns with PGP and S/MIME?	8	CO6	U
