


Name:			
Enrolment No:			
UPES End Semester Examination, May 2024			
Course: IT Data Security Program: BTech LLB (Cyber Law) Course Code: CSSF2002		Semester: X Time : 03 hrs. Max. Marks: 100	
Instructions:			
SECTION A (5Qx2M=10Marks)			
S. No.		Marks	CO
Q1	Explain the three principles of data security.	2	CO1
Q2	Compare data security and data privacy	2	CO1
Q3	Explain the need for network security.	2	CO2
Q4	Explain the objectives of information security	2	CO2
Q5	State True or False Steganography follows the concept of security through obscurity.	2	CO3
SECTION B (4Qx5M= 20 Marks)			
Q 6	Define vulnerability and explain the types of security vulnerability.	5	CO4
Q7	Compare symmetric and asymmetric cryptographic techniques.	5	CO3
Q8	Explain active and passive attacks with examples.	5	CO2
Q9	State and explain the principles of public key cryptography	5	CO2
SECTION-C (2Qx10M=20 Marks)			
Q 10	Illustrate and discuss the complete phases of the information security life cycle with a suitable diagram.	10	CO4
Q11	Discuss about steganography. Mention a few popular techniques used in steganography.	10	CO3
SECTION-D (2Qx25M=50 Marks)			

Q12	Discuss any two Substitution Techniques and list their merits and demerits.	25	CO3
Q 13	(i) Draw the general structure of DES and explain the encryption decryption process. (ii) Mention the strengths and weaknesses of the DES algorithm	25	CO4