

END SEMESTER EXAMINATION, 2022 – 23
IInd yr B.Tech. – Computer Science & Engineering
Cryptography and Security Laws

Duration: 3:00 hrs

Max Marks: 100

Note: - Attempt all questions. All Questions carry equal marks. In case of any ambiguity or missing data, the same may be assumed and state the assumption made in the answer.

Q 1.	Answer any four parts of the following. a) What is an example of digital signature? How does a digital signature works? b) What are the differences between symmetric and Asymmetric key in cryptography? c) What is SSL VPN? At which layer does SSL VPN operate? d) What are security differences between S/MIME and PGP E-mail? e) Explain the term cyberspace and how it is related to cybercrime? f) Why cyber law is a need today? Explain it with an example.	5x4=20
Q 2.	Answer any four parts of the following. a) What are the role of cyber forensics in Investigation? b) What are some common data sources used during investigation? c) How VPN help in securing data and control access? d) What does scrutinize term means? How e-mail scrutinizing is done? e) Why user management is done for cyber security? Explain it with an example. f) How an investigation is controlled in cyber forensics?	5x4=20
Q 3.	Answer any two parts of the following. a) Why there is a need of Message Authentication. What are the methods of producing message authentication code? b) How does a firewall protect data? Do firewall stop hackers. What can firewall protect against? c) What is IPSec? How IPSec works for security? What are some major drawback of IPSec?	10x2= 20
Q 4.	Answer any two parts of the following. a) What are some basics steps to be followed for handling digital evidence? b) What is National Cyber Security Policy 2013? Why this policy is created? c) What do you understand by Information hiding in cyber forensics and How it is accomplished?	10x2= 20
Q 5.	Answer any two parts of the following. a) Mention some cyber-criminal activities. What are their offence and penalties? b) What do you know about disk based forensics analysis? c) How tracing helps in cyber security? Write down the differences between hacking and ethical hacking.	10x2= 20