

INFORMATION SECURITY AND CYBER LAWS

Time: 2 Hours

Max. Marks: 50

Note:

- Attempt all questions.
- Marks and number of questions to be attempted from the section is mentioned before each section.
- Assume missing data suitably. Illustrate the answers with suitable sketches.

1. Attempt any five parts of the following:

[2×5]

- ~~a.~~ Explain any two of the internetworking devices.
- ~~b.~~ What is the need of cyber law?
- ~~c.~~ What do you understand by patent?
- ~~d.~~ Discuss the objectives of the IT ACT 2000.
- ~~e.~~ What is e-marketplace technology?
- ~~f.~~ Give some security threats to e-commerce.

2. Attempt any four parts of the following:

[3×4]

- ~~a.~~ What are three types of authentication mechanism that an organization can adapt?
- ~~b.~~ Differentiate between hacking and cracking.
- ~~c.~~ Explain the various types of attacks on wireless network.
- ~~d.~~ What are different issues in ethical hacking?
- ~~e.~~ What is a web service? Discuss about security of web service.

3. Why we use keys in cryptography? And explain the concept of public and private key with example. [6]

4. In RSA, given $e=13$ and $n=100$. Encrypt the message "who are you" using 00 to 25 for letter A to Z and 26 for the white space. [7]

5. Write the short note on the following (any three): [5×3]

a. Intrusion detection system and its types.

~~b.~~ Virtual private network (VPN).

~~c.~~ Digital signature system

d. IPR and Biometrics