

**P.G. DIPLOMA IN INFORMATION SECURITY  
(PGDIS)**

**Term-End Examination,**

**December 2019**

**MSEI-022 : NETWORK SECURITY**

**Time : 2 Hours]**

**[Maximum Marks : 50**

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- Note :** (i) *Section-A : Answer all the objective type questions.*  
(ii) *Section-B : Answer all the very short answer type questions.*  
(iii) *Section-C : Answer any two questions out of three.*  
(iv) *Section-D : Answer any two questions out of three long type questions.*
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**Section - A**

(Attempt all the questions.)

1. Write true or false : 5×1=5
- a) The main objectives of SSL is authenticating the client and server to each other.
  - b) Symmetric encryption is best used for small blocks of data, digital signatures, digital envelopes and digital certificates.
  - c) Network layer firewall works as a packet filter.
  - d) A Key-logger is a small hardware device or a program that monitor each keystroke a user types on the computer's keyboard.
  - e) Encryption cannot ensure secrecy of data.

(2)

2. Fill in the blanks : 5×1=5
- a) A \_\_\_\_\_ is a physical trait that consists of facial structure, eye color, voice, iris, pattern and fingerprint.
  - b) The signal where the Water mark is to be embedded is called the \_\_\_\_\_.
  - c) Firewalls are often configured to block \_\_\_\_\_ traffic.
  - d) Full form of LDAP is \_\_\_\_\_.
  - e) A \_\_\_\_\_ is a mathematical scheme for demonstrating the authenticity of a digital message or document.

### Section - B

(Attempt all the questions.)

3. Write short notes on the following: 5×2=10
- a) Dictionary attack
  - b) Post Office Protocol 3s (POP 3s)
  - c) Honey pots
  - d) Risk analysis
  - e) Hash function

### Section - C

(Attempt any two out of three short type questions.)

4. Describe the types of IDSs and their limitations. Why we need hybrid IDSs. 5

(3)

5. Discuss the applications of Cryptography. 5
6. Explain vulnerabilities, Threats, attacks and controls with suitable example of each. 5

### Section - D

(Attempt any two out of three long type questions.)

7. What is an Authentication mechanism? Explain in detail. 10
8. Explain Security protocols in detail. 10
9. Explain Network Layer attack. Discuss packet sniffing in detail. 10

