

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

Term-End Examination

December, 2017

MSEI-022 : NETWORK SECURITY

Time : 2 hours

Maximum Marks : 50

- 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.*

SECTION - A

(Attempt all the questions)

1. Write True or False : 5x1=5
- (a) Session sniping is a measure taken by IDS.
 - (b) A Firewall is a device with set of rules to permit ordinary network access by unauthorized services.
 - (c) The main objectives of SSL is authenticating the client and server to each other.
 - (d) WEP is less secure than WAP.
 - (e) Full form of PGP is Pretty Good Privacy.

2. Fill in the blanks : 5x1=5
- (a) _____ can be defined as the practice and study of hiding information.
 - (b) Block Ciphers and Stream Ciphers are types of _____ Ciphers.
 - (c) ICMP stands for _____.
 - (d) Full form of LDAP is _____.
 - (e) IP sec stands for _____.

SECTION - B

(Answer all the questions)

3. Write short notes on the following : 5x2=10
- (a) Symmetric Cryptography
 - (b) Trojan horses
 - (c) IDS
 - (d) Types of digital water marking
 - (e) E-mail Spoofing

SECTION - C

(Attempt any 2 out of 3 short type questions)

- 4. Describe the types of IDSs and their limitations. 5
Why we need hybrid IDSs ?
- 5. Explain the process of creating and verifying a digital signature. 5
- 6. Write in detail about "Keys" establishment and its types. 5

SECTION - D

(Attempt any 2 out of 3 long type questions)

7. What are Honeypots ? Briefly explain various types of honeypots. What are its advantages and disadvantages ? 10
 8. Explain the basic scanning techniques in detail. 10
 9. Explain the role of a firewall in securing the network. Describe different types of firewalls. 10
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