P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

00792

Term-End Examination

December, 2015

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 question out of three.*

(iv) **Section - D** - *Answer any two question out of three long type questions.*

SECTION - A

(Attempt **all** the questions)

1. Write **True** or **False**.   **5x1=5**

   (a) A Key - logger is a small hardware device or a program that monitor each keystroke a user types on the computer's keyboard.

   (b) A firewall is a device with set of rules to permit ordinary network access by unauthorized services.

   (c) TCP/IP hijacking is successful because protocols, such as File Transfer Protocol (FTP) and Telnet, do not check the source IP addresses of the device from which they receive packets.

(d) Hardware firewalls usually are located inside the network security perimeter as the last line of defense.

(e) Malware is simply an Web-advertisement and does not pose substantial risk to large organizations.

2. Fill in the blanks :   5x1=5

(a) A _____ is a trap set to detect, deflect or in some manner counteract attempts at unauthorized use of information system.

(b) Full form of LDAP is _____.

(c) The signal where the watermark is to be embedded is called the _____.

(d) _____ is a secret - key network authentication service developed at MIT by Project Athena.

(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 :   5x2=10

(a) Next Generation Networks

(b) Hash function

(c) Trojan horses

(d) E-mail Spoofing

(e) Dictionary attack

SECTION - C

(Attempt **2 out of 3** short type questions)

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

5. Give the difference between Symmetric and 5
    Asymmetric Cryptography.

6. Explain the types of digital watermarks. 5

SECTION - D

(Attempt **2 out of 3** long type questions)

7. Explain the application of Biometrics technology **10**
    in detail.

8. What is an authentication mechanism ? Explain **10**
    in detail.

9. Explain the role of a firewall in securing the **10**
    network. Describe different types of firewalls.

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