P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Examination

December, 2013

MSEI-022 : NETWORK SECURITY

Time : 2 hours *Maximum Marks : 50*

Note : *Section A - Answer all the objective type questions.*

Section B - Answer all the very short answer type questions.

Section C - Answer any 2 out of 3 short type answer questions

Section D - Answer any 2 out of 3 long type questions.

SECTION - A
(Attempt all the questions)

1. Write True or False. 1x5=5
   (a) SSL and TLS are protocols used in Network layer.
   (b) WEP is less secure than WAP.
   (c) Session Sniping is a measure taken by IDS.
   (d) SING is a GUI Scanning technique.
   (e) Handshake protocol is the most simplest part of SSL protocol.

2. Fill in the blanks. 1x5=5
   (a) Kerberos is a _____ key authentication service developed at MIT.
   (b) ICMP stands for _____.

(c) Video watermarking , Audio water marking , Text watermarking etc. are applications of _____ .

(d) Block ciphers and Stream ciphers are types of _____ ciphers.

(e) _____ is a device with set of rules to permit or deny Network access by unauthorised services.

SECTION - B

(Attempt all the questions)

3. Write short notes on the following :   5x2=10

(a) IRIS recognition

(b) IDS

(c) IDEA

(d) Firewall

(e) Cryptography

SECTION - C

(Attempt 2 out of 3 Short type questions) 5x2=10

4. Briefly explain various stages of cryptography.

5. Explain the process of creating and verifying a digital signature.

6. Compare the functionalities of the Network firewalls with that of the Host - based firewalls.

SECTION - D

(Attempt 2 out of 3 Long type questions) 10x2=20

7. What is ESP ? With the help of suitable diagram, explain IP Sec in ESP Transport mode and IP Sec in ESP Tunnel mode.

8. What are various Security issues in wireless ? Explain the process of WEP encryption and WEP decryption with the help of a suitable diagram.

9. What are Honeypots ? Briefly explain various types of honeypots. What are its advantages and disadvanatages ?

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