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

### Term-End Examination

### June, 2018

## 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 2 out of 3 short type answer questions.*

       *(iv)*    *Section - D : Answer any 2 out of 3 long type answer questions.*

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### SECTION - A

(Attempt all the questions.)

1. Write **True** or **False** :          1x5=5

   (a) TLS and SSL are protocols used in Network layer.

   (b) Handshake protocol is the most simplest part of SSL protocol.

   (c) Firewalls can greatly decrease the security of a host or a network.

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

   (e) SING is a GUI scanning technique.

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2. Fill in the blanks : 1x5=5

   (a) A _____ is a mathematical scheme for demonstrating the authenticity of a digital message or document.

   (b) Kerberos is a _____ key authentication service developed at MIT.

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

   (d) An _____ can be stated as "a set of rules that precisely defines a sequence of operations".

   (e) Video watermarking, Audio watermarking, Text watermarking etc. are applications of _____.

## SECTION - B
### (Attempt all the questions.)

3. Write short notes on the following : 5x2=10
   (a) Dictionary attack
   (b) IRIS recognition
   (c) Undeniable signatures
   (d) Hash function
   (e) Next Generation Networks.

## SECTION - C
### (Answer any 2 out of 3 short type questions.)

4. Explain the main properties of Digital Signatures. 5

5. Explain the types of digital watermarks. 5

6. Briefly explain various stages of cryptography. 5

## SECTION - D

(Attempt **any 2** out of **3** long type questions.)  **10x2=20**

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

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

9.  What are the most challenging aspects of ISO/IEC 27002 implementation and ISO/IEC 27001 compliance ?

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