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

Term-End Examination

December, 2018

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 short type questions.*
 - (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 : 1x5=5**
- (a) A 'Hash function' is a complex encryption algorithm used primarily in cryptography. 1
 - (b) Decryption process converts ciphertext to plaintext. 1
 - (c) The main objectives of SSL is authenticating the client and server to each other. 1

(d) The Patenting of software is highly controversial. 1

(e) Symmetric encryption is best used for small blocks of data, digital signatures, digital envelopes and digital certificates. 1

2. Fill in the blanks : 5x1=5

(a) _____ creates verifiable and ordered cryptographic link between current and already issued time-stamp tokens. 1

(b) A computer used as trap set to detect or deflect unauthorised use is known as _____. 1

(c) The signal where the watermark is to be embedded is called the _____. 1

(d) Full form of LDAP is _____. 1

(e) A _____ is a physical trait that consists of facial structure, eye color, voice, iris, pattern and fingerprint. 1

SECTION - B

(Attempt all the questions.)

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

(a) Post Office Protocol 3s (POP 3s)

(b) Session Hijacking

(c) Public key infrastructure

(d) Cipher text

(e) IP Datagram

SECTION - C

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

4. Explain use of mobile device forensics. 5
5. Explain classification of time stamping. 5
6. Describe characteristics of watermarks. 5

SECTION - D

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

7. Explain the process of encryption in detail. 10
 8. Explain various types of symmetric ciphers with suitable examples of each. 10
 9. "Cybercrime investigations are time-sensitive". Explain how ? 10
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