MASTER OF SCIENCE (INFORMATION SECURITY)/P. G. DIPLOMA IN INFORMATION SECURITY (MSCIS/PGDIS)

Term-End Examination

December, 2023

MSEI-022 : NETWORK SECURITY

Time : 2 Hours   *Maximum Marks : 50*

Note : *(i)* **Section A**–*Answer all the questions.*

     (ii) **Section B**–*Answer any* **two** *out of three questions.*

     (iii) **Section C**–*Answer any* **two** *questions out of three long type questions.*

Section—A

1. Write notes on the following :   5×2=10

     (a) Hash Function

     (b) Port Scanning Tools

     (c) Dictionary Attack

(d) Cipher Text

(e) Decryption

2. Fill in the blanks :   5×1=5

   (a) Full form of LDAP is ....

   (b) IPSec stands for ....

   (c) .... is mostly used to protect the privacy of information.

   (d) .... port is used for SMTPS + TLS security.

   (e) DES is a .... cipher.

3. Write True *or* False :   5×1=5

   (a) Encryption cannot ensure security of data.

   (b) The patenting of software is highly controversial.

   (c) Fingerprints can be used for identification.

   (d) Bluetooth is an example of WPAN.

   (e) WEP is less secure than WPA.

Section—B

Note : *Answer any* **two** *out of three questions.*

2×5=10

4. Explain fingerprinting technique of identity management.   5

5. What is digital signature ? Describe a public key method to create and check digital signature. 5

6. Discuss the applications of cryptography. 5

Section—C

Note : *Answer any **two** questions out of three long answer type questions.* 2×10=20

7. Explain the basic scanning techniques in detail. 10

8. Explain IDS and IPS. Is Honey Pot and IDS or IPS ? Justify your answer. 10

9. What is an authentication mechanism ? Explain in detail. 10