P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

00542

Term-End Examination

December, 2016

MSEI-021 : INTRODUCTION TO INFORMATION 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.

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

SECTION - A

Objective type questions   **10x1=10**

(Attempt **all** the questions)

1. Data Encryption are done on _____ of OSI model.

2. NIC stands for _____.

3. An assembler is _____ dependent.

4. IDPS stands for _____.

5. The 4 byte IP address consists of :
   (a) network address
   (b) host address
   (c) both (a) and (b)
   (d) none of the mentioned

6. The network layer protocol of internet is :
   (a) ethernet
   (b) internet protocol
   (c) hypertext transfer protocol
   (d) none of the above

7. Multidestination routing :
   (a) is same as broadcast routing
   (b) contains the list of all destinations
   (c) data is not sent by packets
   (d) none of the above

8. Security weaknesses can always be entirely eliminated :
   (a) True   (b) False

9. Account expiration is the same as password expiration :
   (a) True   (b) False

10. By default, a digital signature provides encryption for a message :
    (a) True   (b) False

SECTION - B

(Very short answer type questions.   5x2=10

Attempt **all** the questions)

11. What is Virus and what are its symptoms ?

12. Explain the concept of Encryption.

13. Explain Operation System.

14. Explain Brute-force computation.

15. What do you mean by cryptography ?

SECTION - C

(Attempt **any 2** out of **3** short answer type questions)
     2x5=10

16. What is Network Security and why is it important ?

17. Explain cryptography and overview of SSL Handshake.

18. What are the two methods for computing passwords ?

(Attempt **any 2** out of **3** long questions) **2x10=20**

19. What is Malware ? What kind of precautions can we use to overcome the virus problem ?

20. What is cryptanalysis ? Explain in brief differential and linear cryptanalysis.

21. Write short notes on the following :

    (a) Hacktivism

    (b) Cyber crime investigation

    (c) File Servers

    (d) SMI and MBI

    (e) Logic Bomb