P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Examination

June, 2016

00954

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 short answer type questions.

(iv)   Section D - Answer any two questions out of three long answer type questions.

SECTION - A

Objective type questions

(Attempt all the questions)

1.   Which of the following computer security threats   1
     can be updated automatically and remotely ?
     (Select best answer)

(a)   Virus

(b)   Worm

(c)   Zombie

(d)   Malware

2. Which of the following is **not** an example of malicious software ? 1

   (a) Root kits

   (b) Spyware

   (c) Viruses

   (d) Browser

3. Which type of attack uses more than one computer ? 1

   (a) Virus

   (b) DOS

   (c) Worm

   (d) DDOS

4. Which of the following does **not** need updating ? 1

   (a) HIDS

   (b) Antivirus Software

   (c) Pop-up blockers

   (d) Antispyware

5. What is a malicious attack that executes at the same time every week ? 1

   (a) Virus

   (b) Worm

   (c) Bluejacking

   (d) Logic bomb

6. DDOS stands for _____. 1

7. Which topology is referred to as hub-and-spoke topology ? 1
   (a) Star
   (b) Ring
   (c) Bus
   (d) Tree

8. The process of a computer receiving information from a server on the internet is known as : 1
   (a) downloading
   (b) pulling
   (c) transferring
   (d) uploading

9. In order to view pages on a website, the user needs to enter the site address called : 1
   (a) Uniform Resource Locator
   (b) email address
   (c) postal address
   (d) MAC address

10. Memory stores : 1
   (a) the operating system
   (b) application programs
   (c) the data being processed by the application programs
   (d) all of the above

SECTION - B

Very short answer type questions

(Attempt **all** the questions)

11. Differentiate between SYN flood and ICMP flood.   **2**

12. What makes DDOS attacks possible ?   **2**

13. Write short note on MIB.   **2**

14. Differentiate between Interpreter and Compiler.   **2**

15. Write a short note on Encryption and Decryption of data.   **2**

SECTION - C

Short answer type questions

(Attempt **2** out of **3** questions)

16. Explain Network Management Architecture.   **5**

17. What is Network Security and why it is important ?   **5**

18. What is cryptography ? Why is it important ?   **5**

SECTION - D

Long answer type questions

(Attempt **2** out of **3** questions)

19. Give the five basic steps used by computer hackers   **10**
to gain unauthorized access over a computer
system.

20. Consider online examination system, where   **10**
students can login and answer questions online.
For this system, identify vulnerability, threats and
attacks.

21. Write short notes on the following :   **5+5**

    (a)   Firewall

    (b)   File Server