P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Examination

June, 2015

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

(Answer all the questions) **10x1=10**

1. The topology when each network host is connected to a central point in LAN is called _____. 1

2. To make an attempt for making computer resources unavailable to the intentional user is called _____. 1

3. _____ refers to the running of multiple independent computer programs on the same computer. 1

4. _____ is the unauthorized discovery and mapping of systems, services or vulnerabilities.   1

5. Full duplex system permits information to flow simultaneously in both directions on the transmission path. (True or False)   1

6. Networks used to interconnect computers in a single room, in a building or buildings in one site are called _____.   1

7. _____ can be defined as copying and using commercial software purchased by someone else.   1

8. _____ is a process used in information security to prevent the information from unauthorized or accidental disclosure while the information is being transmitted and while information is in storage.   1

9. _____ are viruses which change their characteristic after each infection.   1

10. The process of eliminating all errors and suitable modifying instructions to help the process is called _____.   1

SECTION - B

(Very short answer type questions. Attempt **all** the questions)   5x2=10

11. Differentiate between the following :
    (a) System software and Application software
    (b) Star topology and Mesh topology

(c)   Linux and Unix Operating Systems

(d)   Machine language and Assembly language

(e)   Analog computers and Digital computers

SECTION - C

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

12.   Explain the computer worms.   **5**

13.   How ethics can make you a better employee in   **5**
       the workplace ? Explain.

14.   What is virus ? What kind of protection can be   **5**
       used to overcome virus problem ?

SECTION - D

(Attempt **two** out of three long answer type
questions)   **2x10=20**

15.   Explain the need of Information Security   **10**
       Awareness from a point of view of both the end
       user as well as the organization.

16.   Operating system acts as a resource manager   **10**
       because it controls all parts of the computer. Do
       you agree ? Explain in detail.

17.   It is the duty of the business officials and   **10**
       employees to keep certain business and personal
       information confidential. Suggest the different
       steps to be taken for maintaining confidentiality
       in any organization.

———