

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

Term-End Examination

June, 2017

**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.
(Attempt all the questions)

1x10=10

- 1. SSL stand for : 1
 - (a) Secure Safe Learning
 - (b) Secure Socket Layer
 - (c) Secure Surfing Layer
 - (d) Socket Secure Layer

- 2. Multipartite viruses attack on : 1
 - (a) Files
 - (b) Boot sector
 - (c) Memory
 - (d) All of the mentioned

3. Full duplex system permits information to flow simultaneously in both direction on the transmission path. (True/False). 1
4. In computer security, _____ means that computer system assets can be modified only by authorized parties. 1
- (a) Confidentiality
 - (b) Integrity
 - (c) Availability
 - (d) Authenticity
5. This topology requires multi point connection : 1
- (a) Star (b) Mesh
 - (c) Ring (d) Bus
6. DOS attacks are limited to wired networks and cannot be used against wireless networks. 1
- (a) True (b) False
7. Hardware firewalls usually are located inside the network security perimeter as the last line of defence. 1
- (a) True (b) False
8. One of the most important steps in hardening an operating system to resist attacks is to apply updates. 1
- (a) True (b) False
9. Translator for low level programming language were termed as _____. 1
10. Shell is the exclusive feature of _____ OS. 1

SECTION - B

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

11. What do you understand by Port Redirection ?
12. Write short note on internet.
13. What is the difference between Grey Hat Hackers and Black Hat Hackers ?
14. Write any two precautions for operating system security.
15. What is anti-virus software ? Why it is used ?

SECTION - C

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

16. Explain any three types of network attacks in detail.
17. Explain Half Duplex and Full Duplex mode of Data Transmission.
18. What is an operating system ? Explain its functions and any two types of operating system.

SECTION - D

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

19. Explain the layers of OSI model.
20. What is SNMP management Frame work ? Also define its basic components.
21. Write short note on the following :
 - (a) Hacking
 - (b) Firewall
 - (c) File servers
 - (d) Malware
 - (e) State sponsored hacking