

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

**Term-End Examination 00579  
June, 2012**

**MSEI-021 : INTRODUCTION TO INFORMATION  
SECURITY**

*Time : 2 hours*

*Maximum Marks : 50*

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- Note : Section 'A' - Answer all the objective type questions.  
Section 'B' - Answer all the very short answer type questions.  
Section 'C' - Answer any two questions out of three.  
Section 'D' - Answer any two questions out of three.*
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**SECTION - A**

**Objective type questions**

**1x10=10**

**(Attempt all the questions)**

- 1. The types of Software are :**
- (a) System Software
  - (b) Application Software
  - (c) Utility Software
  - (d) All of the above.

**1**

2. ICMP stands for : 1
- (a) Internet Control Message Protocol
  - (b) Internet Control Mail Protocol
  - (c) Internet Centre Message Protocol
  - (d) None of the above
3. Characteristics of a Virus are : 1
- (a) Size and versatility
  - (b) Propagation and Effectiveness
  - (c) Functionality and Residence
  - (d) All of the above
4. The goal of computer security is the protection of information stored on the computer system. 1
- (a) True
  - (b) False
5. It translate the program line by line : 1
- (a) Interpreter
  - (b) Compiler
  - (c) Executable code
  - (d) Source code
6. It helps to block undesired Internet Traffic, from accessing your computer : 1
- (a) Switch
  - (b) Server
  - (c) Router
  - (d) Firewall

7. ICMP messages are used by ping command to test : 1
- (a) Network connectivity
  - (b) Reachability
  - (c) Availability
  - (d) All of the above
- 1
8. Viruses can be classified on the basis of :
- (a) What they effect
  - (b) How they effect
  - (c) Where they effect
  - (d) All of the above
9. It integrates the Star and Bus topologies in a hybrid approach to improve network scalability : 1
- (a) Star
  - (b) Mesh
  - (c) Bus
  - (d) Tree
10. These Servers are used to provide file upload and download capabilities to users : 1
- (a) DNS Server
  - (b) SAMBA Server
  - (c) FTP Server
  - (d) DHCP Server

## SECTION - D

Long Answer type Questions

2x10=20

(Attempt 2 out of 3 long type questions)

19. Differentiate between Threats, Attacks and Vulnerabilities with examples of each. 10
  20. What is network Hardening? Write a comparison between LAN, WAN, MAN? 10
  21. What is Malware? What kind of precautions can we use to overcome the Virus problem? 10
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## SECTION - B

**Very Short Answer type Questions**  
(Attempt all the questions)

**2x5=10**

11. Write short note on Internet ? 2
12. What is a Virus and what are its Symptoms ? 2
13. Differentiate between DOS and DDOS Attacks ? 2
14. What do you mean by Cryptography ? 2
15. Differentiate between Interpreter and Compiler. 2

## SECTION - C

### Short Answer type Questions

2x5=10

(Attempt 2 out of 3 short type questions)

16. Explain any three types of network attacks in detail. 5
17. What is Network Security and why is it important ? 5
18. What is an Operating System ? Explain its functions and any two types of Operating System. 5