

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

Term-End Examination 00175
December, 2011

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

Time : 2 hours

Maximum Marks : 50

- 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
(Attempt all the questions)**

1. Which of the layers of OSI Model ensures that data is successfully sent and received between two computers ? **1**
(a) Transport layer
(b) Network layer
(c) Application layer
(d) Session layer
2. _____ is a program designed to run other program on computer; **1**
(a) Virus (b) Application
(c) Operating system (d) Malware

3. This attack requires that the hackers have access to network packets that come across the network : 1
- (a) Password Attack
 - (b) Application Attack
 - (c) DoS Attack
 - (d) Man-in-the-middle Attack
4. In networking, the term bandwidth refers to the measure of the capacity of a medium to transmit data : 1
- (a) TRUE
 - (b) FALSE
5. Vulnerability is a weakness that is inherent in every network and device, which includes : 1
- (a) Routers
 - (b) Switches
 - (c) Desktops and Servers
 - (d) All of the above
6. An Organised collection of software that controls the overall operation of a computer and supervises the execution of other programs is known as : 1
- (a) Operating System
 - (b) Server
 - (c) Web World Wide
 - (d) Network

7. Multitasking refers to running of the multiple independent computer programs on _____; **1**
- (a) Different Computers
 - (b) Virtualization
 - (c) Same Computers
 - (d) Client - Server
8. Which topology is referred to as hub-and-spoke topology; **1**
- (a) Star (b) Ring (c) Bus (d) Tree
9. Examples of DDoS attacks include the following; **1**
- (a) Smurf (b) Tribe Flood Network
 - (c) Stacheldraht (d) All of the above
10. Features of Networking are; **1**
- (a) Sharing of computer resources
 - (b) Helps in sharing of software
 - (c) Helps in communication
 - (d) All of the above

SECTION - B

Very short Answer type questions.

(Attempt all the questions)

11. What do you understand by OS Hardening ? 2
12. Define FTP & DNS Servers. 2
13. Write a small note on Fiber Optics. 2
14. What do you understand by GUI (Graphical User Interface) ? Give two Examples. 2
15. Explain Multitasking ? 2

SECTION - C

Short Answer type questions

(Attempt 2 out of 3 short type questions)

16. Explain the concept of Information Security and describe its principles. 5

17. What do you mean by topology ? Explain any three types of topologies in detail. 5

18. Which precautions are supposed to be taken for Operating Systems Security ? 5

SECTION - D

Long Answer type questions

(Attempt 2 out of 3 long type questions)

19. Explain active directory structure ? List out the partitions of directory tree and write down the active application mode. 10

 20. What is Network Management and explain which activities comprise of it and also explain its available frameworks. 10

 21. Explain the basic security threats and their corrective measures in detail. 10
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