

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

**Term-End Examination, 2019**

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

**Time : 2 Hours]**

**[Maximum Marks : 50**

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**Note :** Answer the questions as per instructions given in each section.

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**SECTION-A ( Objective Type Questions )**

**Note :** Attempt all questions :

1. The phrase \_\_\_\_\_ describes, Viruses, Worms, Trojan horse attack applets, and attack scripts. [1]
2. The \_\_\_\_\_ of a threat measures its potential impact on a system. [1]
3. A hacker contacts you by phone or email and attempts to acquire your password is called \_\_\_\_\_. [1]
4. A \_\_\_\_\_ is a small program embedded inside of a GIF image. [1]



5. A \_\_\_\_\_ is anything that can cause harm. [1]
6. Message authentication is a service beyond \_\_\_\_\_. [1]
- (a) Message Confidentiality
  - (b) Message Integrity
  - (c) Message splashing
  - (d) Message Sending
7. A hash function guarantees integrity of a message. It guarantees that message has not be \_\_\_\_\_. [1]
- (a) Replaced
  - (b) Over view
  - (c) Changed
  - (d) Violated
8. All of the following are examples of real security and privacy threats except \_\_\_\_\_. [1]
- (a) Hackers
  - (b) Virus
  - (c) Spam
  - (d) Worm

9. Trojan horses are very similar to virus in the matter that they are computer programs that replicates copies of themselves. [1]
- (a) True
- (b) False
10. A hacker that changes or forges information in an electronic resources is engaging in \_\_\_\_\_. [1]
- (a) denial of service
- (b) sniffing
- (c) terrorism
- (d) data diddling

### SECTION-B (Very Short Answer Type Questions)

**Note :** Attempt all the questions :

11. Explain 'Security Model'. [2]
12. What are FTP servers ? Explain. [2]
13. Explain Brute-Force Computation. [2]
14. What do you understand by Port Redirection ? [2]
15. Differentiate between DOS and DDOS Attacks ? [2]
- MSEI-021/2000 ( 3 ) [P.T.O.]

### **SECTION-C (Short Answer Type Questions)**

**Note :** Attempt **any two** questions :

16. What is CSMA-CD ? Explain. [5]
17. Explain cryptography and overview of SSL Handshake. [5]
18. Explain any three types of network attacks in detail. [5]

### **SECTION-D (Long Answer Type Questions)**

**Note :** Attempt **any two** questions :

19. Why is a methodology important in the implementation of information security ? How does a methodology improve the process ? Explain. [10]
20. Discuss the ethical concepts in information security and the prevention to illegal and unethical behavior. [10]
21. Explain the following : [4x2.5=10]
- (a) NNTP Server
  - (b) TCP/IP
  - (c) Cyber Pornography
  - (d) SMI and MBI