

MASTER OF SCIENCE (INFORMATION SECURITY)/P.G. DIPLOMA IN INFORMATION SECURITY (MSCIS/PGDIS)

Term-End Examination

June, 2022

MSEI-021 : INTRODUCTION TO INFORMATION SECURITY

Time : 2 hours

Maximum Marks : 50

Note :

*Section A – Answer **all** Objective Type Questions.*

*Section B – Answer **all** Very Short Answer Type Questions.*

*Section C – Answer any **two** questions out of three Short Answer Type Questions.*

*Section D – Answer any **two** questions out of three Long Answer Type Questions.*

SECTION A

Objective Type Questions

*Attempt **all** questions.*

1. The prevention against virus is to install _____ software. 1
2. _____ refers to the practice of registering domain names with the desire of selling it at higher prices. 1

3. _____ memory uses a hard disk, to store parts of programs that are currently running and cannot fit in the RAM. 1
4. A _____ is a type of virus that neither replicates nor copies itself, but causes damage or compromises the security of the system. 1
5. An assembler is _____ dependent. 1
6. The Network Layer Protocol of Internet is : 1
- (a) Ethernet
 - (b) Internet Protocol
 - (c) Hypertext Transfer Protocol
 - (d) None of the above
7. Security weakness can always be entirely eliminated. 1
- (a) True
 - (b) False
8. What is the maximum packet size allowed to drop ping request to the target system (when ICMP header is considered) ? 1
9. In a general sense, security is defined as a state of freedom from danger or risk. 1
- (a) True
 - (b) False
10. A hash function does not provide integrity, however, MAC provides integrity. 1
- (a) True
 - (b) False

SECTION B
Very Short Answer Type Questions

*Attempt **all** questions.*

11. Write a short note on Cyberbullying and E-mail Bombing. 2
12. Explain Brute-Force Computation. 2
13. Write a short note on MIB. 2
14. Differentiate between SYN Flood and ICMP Flood. 2
15. Explain “The Phishing Attack”. 2

SECTION C
Short Answer Type Questions

*Attempt **two** out of three questions.*

16. Explain computer worms. 5
17. What is CSMA-CD ? Explain. 5
18. Differentiate between Phreaking and Privacy. 5

SECTION D
Long Answer Type Questions

*Attempt **two** out of three questions.*

- 19.** Explain the need of Information Security Awareness from a point of view of both the end user as well as the organization. *10*
- 20.** What is SNMP management framework ? Also define its basic components. *10*
- 21.** Explain four primary classes of threats to network security. Differentiate between DOS and DDOS attacks. *10*
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