

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

**Term-End Examination**

**December, 2018**

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

*Time : 2 hours*

*Maximum Marks : 50*

- Note :**
- (i) *Section 'A' - Answer all objective type questions.*
  - (ii) *Section 'B' - Answer all very short answer type questions.*
  - (iii) *Section 'C' - Answer any two questions out of three short answer type questions.*
  - (iv) *Section 'D' - Answer any two questions out of three long answer type questions.*

**SECTION - A**

**Objective type questions.  
(Attempt all the questions)**

1. The 4 byte IP address consists of : 1
  - (a) network address
  - (b) host address
  - (c) both (a) and (b)
  - (d) none of the mentioned
  
2. The network layer protocol of internet is : 1
  - (a) ethernet
  - (b) internet protocol
  - (c) hypertext transfer protocol
  - (d) none of the mentioned

3. Multidestination routing : 1  
(a) is same as broadcast routing  
(b) contains the list of all destinations  
(c) data is not sent by packets  
(d) none of the mentioned
4. ICMP is primarily used for : 1  
(a) error and diagnostic functions  
(b) addressing  
(c) forwarding  
(d) none of the mentioned
5. If a security hyper visior or a security virtual machine is not available, it is recommended that traditional security defenses be deployed on each virtual machine. 1  
(a) True (b) False
6. Like a virus, a worm needs the user to perform an action such as starting a program or opening an e-mail attachment to start the infection. 1  
(a) True (b) False
7. In a general sense, security is defined as a state of freedom from danger or risk. 1  
(a) True (b) False
8. Account expiration is the same as password expiration. 1  
(a) True (b) False
9. Security weaknesses can always be entirely eliminated. 1  
(a) True (b) False
10. Hashing provides only Integrity. 1  
(a) True (b) False

### SECTION - B

Very short answer type questions.

(Attempt all the questions)

- |     |   |   |
|-----|---|---|
| 11. | Explain SAMBA.  | 2 |
| 12. | What is a virus and what are its symptoms ?                                   | 2 |
| 13. | Write a short note on Cyber Pornography and E-mail Bombing.                   | 2 |
| 14. | Explain Brute - force computation.  | 2 |
| 15. | Differentiate between Analog data transmission and Digital data transmission. | 2 |

### SECTION - C

Short answer type questions.

(Attempt 2 out of 3 short type questions)

- |     |  |   |
|-----|--|---|
| 16. | What is Network Security and why it is important ? | 5 |
| 17. | What are the reasons for hacking ?                 | 5 |
| 18. | What is CSMA/CD ? Explain.                         | 5 |

### SECTION - D

Long answer type questions.

(Attempt 2 out of 3 questions)

- |     |   |    |
|-----|---|----|
| 19. | Explain the layers of OSI reference model.  | 10 |
| 20. | What is SNMP management frame work ? Also define its basic components.                | 10 |
| 21. | What is Malware ? What kind of precautions can we use to overcome the virus problem ? | 10 |