P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

00533

Term-End Examination

December, 2017

MSEI-023 : CYBER SECURITY

Time : 2 hours   *Maximum Marks : 50*

Note : (i) *Section A - Answer all objective type questions.*

(ii) *Section B - Answer all the very short answer type questions.*

(iii) *Section C - Answer any two out of three short answer type questions.*

(iv) *Section D - Answer any two out of three long answer type questions.*

SECTION - A   10x1=10

1. An IP address can be divided into two parts _____ and a _____.

2. ICMP stands for _____.

3. Views are more secure than Tables (True/False) :

4. A _____ is an application or device that can read monitor and capture network packets.

5. The method of transport of data across the Internet is _____.

6. IPv4 address has a size of _____ bit :

7. _____ is an attack vector that relies heavily on human interaction and often involves tricking people to leak information.

8. Columns in RDBMS tables denote _____.

9. A device or software to protect a network or system from unauthorised access is called a _____.

10. Firewall are of two types : Network layer and _____ layer.

SECTION - B

(Very short answer type questions. Attempt **all** the question). 5x2=10

11. Write short notes on the following :
    (a) Cracking
    (b) W3C Architecture
    (c) Cross-site scripting
    (d) Social networking sites
    (e) E-mail crime

SECTION - C

(Attempt **two** out of **three** short answer types questions).

12. Explain SQL injection attack with the help of a suitable example. 5

13. What is a phishing attack ? How do you identify a phishing email ? 5

14. With the help of suitable examples, explain the use of Boolean operators while searching online using search engines. 5

SECTION - D

(Attempt **two** out of **three** long questions).

15. Explain the ACID properties of a database   **10**
transaction. Which of these is attacked while
attempting to breach database security ? Justify
your answer.

16. List five cyber attacks categories. Explain two of   **10**
them in detail including ways to counter such
attacks.

17. Explain the security issues involved in centralised   **10**
as well as distributed database systems. Which
one is more insecure and why ?