

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

Term-End Examination

June, 2018

MSEI-023 : CYBER 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 2 out of 3 short answer type questions.*
 - (iv) *Section D - Answer 2 out of 3 long answer type questions.*

SECTION - A

1. Which injection attack is most commonly used to access databases and the networks they reside on ? 10x1=10
 - (a) Small injection
 - (b) OS injection
 - (c) SQL injection
 - (d) LDAP injection
2. The full name of XSS attack is _____.
3. POP stands for _____.
4. The _____ attack prevents normal use of computer or network by valid users.

5. An _____ is a company providing access to Internet and other related services.
6. In _____ attack, the hacker modifies the source address of the packets to make them appear to be coming from someone else.
7. IPv6 address has a size of _____ bits.
8. Information gathering, which is unauthorized, is also known as _____ attack.
9. Rows in a RDBMS table denote _____.
10. UTF stands for _____.

SECTION - B

(Very short answer type questions. Attempt all the questions)

5x2=10

11. Write short notes on the following :
 - (a) Reverse Engineering
 - (b) Hacking
 - (c) Phishing Attack
 - (d) XSS filter
 - (e) Active vs Passive Attack

SECTION - C

(Attempt two out of three short questions)

12. Explain 'Union' and 'Difference' operations in Relational Algebra with the help of a suitable example. 5
13. How does firewall help in Cyber Security ? Explain. 5
14. List out the ways to prevent XSS attacks on a website. 5

SECTION - D

(Attempt two out of three long questions)

15. Social Engineering is the most subtle yet most dangerous attack in terms of damage it can cause. Suggest some policy measure for the employees of an organisation so that they are able to handle as well as thwart social engineering attack. 10
 16. Suggest some guidelines for social networking site users to protect their profiles from getting defaced or hacked. Is there any legal remedy available with the victim to book the culprits ? 10
 17. Explain server side scripts and client side scripts. Also explain various vulnerabilities on these scripts and possible attacks and defense mechanism to defend from these attacks. 10
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