

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

Term-End Examination

June, 2016

**MSEI-025 : APPLICATION AND BUSINESS
SECURITY DEVELOPMENTS**

Time : 2 hours

Maximum Marks : 50

- Note :** (i) *Section A - Objective type questions.*
(ii) *Section B - Very short answer type questions.*
(iii) *Section C - Short answer type questions.*
(iv) *Section D - Long answer type questions.*

SECTION - A

(Attempt all the questions)

10x1=10

1. Which statement is true ?
 - (a) An XML document can have one root element.
 - (b) An XML document can have one child element.
 - (c) XML elements have to be in lower case.
 - (d) All of the above

2. Choose the correct HTML tag for the largest heading ?
 - (a) <H1>
 - (b) <H6>
 - (c) <H10>
 - (d) <HEAD>

3. In computer security _____ means that computer system assets can be modified only by authorized parties.
- (a) Confidentiality (b) Integrity
(c) Availability (d) Authenticity
4. Which of the following malicious program do not replicate automatically ?
- (a) Trojan Horse (b) Virus
(c) Worm (d) Zombie
5. The types of threats on the security of a computer system or network are :
- (i) Interruption
(ii) Interception
(iii) Modification
(iv) Creation
(v) Fabrication
- (a) (i), (ii), (iii) and (iv) only
(b) (ii), (iii), (iv) and (v) only
(c) (i), (ii), (iii) and (v) only
(d) All
6. IP Sec is designed to provide the security at the :
- (a) Transport layer
(b) Application layer
(c) Network layer
(d) Session layer
7. Which of the following is/are protocol/s of Application ?
- (a) FTP (b) DNS
(c) Telnet (d) All of the above

8. Which of the following does not use a cryptographical technique to protect data ?
- (a) The use of digital signatures
 - (b) Data Encryption
 - (c) The use of stored encrypted password files
 - (d) Using asymmetric keys at sender and receiver nodes
9. PGP encrypts data by using a block cipher called :
- (a) IDEA
 - (b) Private data encryption algorithm
 - (c) Internet data encryption algorithm
 - (d) None
10. Gathering information by what users enter on their keyboards, especially login names and passwords is known as :
- (a) Dumpster Diving
 - (b) Shoulder Surfing
 - (c) Piggy Backing
 - (d) Password Hashing

SECTION - B

(Attempt all the questions)

11. Write the difference between White Hacker, Black Hacker and Grey Hacker. 2
12. What is CIA (Confidentiality, Integrity and Availability) ? 2
13. Explain symmetric cryptography algorithm. 2
14. Write the difference between XML and HTML. 2
15. What is XSS ? 2

SECTION - C

(Attempt 2 out of 3 questions)

16. Explain HTTP, HTTPS and TCP. 5
17. Define Buffer overflow attack and how to prevent from it ? 5
18. Explain Black Box Testing and White Box Testing. 5

SECTION - D

(Attempt 2 out of 3 questions)

19. Explain the flow of transaction in SCT with diagram. 10
20. What is malicious program ? Write the types of malicious programs and explain them. 10
21. Write short notes on the following : 5x2=10
- (a) IP spoofing
 - (b) PKI
 - (c) Phishing
 - (d) Dumpster Diving
 - (e) Keyloggers
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