01463

P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Examination

June, 2018

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 (Attempt any 2 out of 3 questions).

(iv) Section D - Long answer type questions (Attempt any 2 out of 3 questions).

SECTION - A
(Attempt **all** the questions)   **10x1=10**

1.   The first step in Software Development Life Cycle (SDLC) is _____.
   (a)   Preliminary investigation and analysis
   (b)   System Design
   (c)   System Testing
   (d)   Coding

2.   What is prototype ?
   (a)   Mini-model of existing system
   (b)   Mini-model of the proposed system
   (c)   Working model of the existing system
   (d)   None

MSEI-025   1   P.T.O.

3. Which one of the following is **not** stage of SDLC ?

(a) System Analysis

(b) Problem identification

(c) System Design

(d) Feasibility study

4. In SET protocol a customer encrypts credit card number using _____.

(a) His private key

(b) Bank's public key

(c) Bank's private key

(d) Merchant's public key

5. In computer security _____ means that the information in a computer system only be accessible for reading by authorized parties.

(a) Confidentiality

(b) Integrity

(c) Availability

(d) Authenticity

6. Which of the following malicious program do not replicate automatically ?

(a) Trojan Horse

(b) Virus

(c) Worm

(d) Zombie

7. Which of the following may intercept and use your messages for their own purposes ?

(a) News outlets

(b) Governments

(c) Crime rings

(d) All

8. Codes have been used for thousands of years in order to :

(a) Become a king

(b) Communicate with some but not others

(c) Send encrypted text messages

(d) None

9. Which of these is regularly used for secure online communication ?

(a) Caesar cipher

(b) Public key cryptography

(c) Morse code

(d) Enigma code

10. How can you tell if a website encrypts its traffic ?

(a) Google it

(b) Look for the lock symbol in a URL

(c) All websites encrypt their traffic

(d) Encrypted sites take longer to load

(Attempt **all** the questions)   5x2=10

11. What is the best approach for choosing a vulnerability assessment tool for your environment ?

12. Describe symmetric cryptography with example.

13. What is input validation ?

14. How to determine if you are vulnerable ?

15. What is Active and Passive attacks ?

SECTION - C
(Attempt **any 2** out of 3 questions)   2x5=10

16. Explain malicious programs with examples.

17. What is the difference between a network vulnerability assessment and a penetration test ?

18. Describe asymmetric cryptography with example. Give the difference between symmetric and asymmetric cryptography.

SECTION - D
(Attempt **any 2** out of 3 questions)   2x10=20

19. Explain error handling and logging with example.

20. Explain the concept of building security into software/system development life cycle.

21. Write short notes on the following :   5x2=10
     (a) Buffer overflow attack
     (b) DOS and DDOS attack
     (c) Loophole
     (d) Public Key Infrastructure
     (e) Ethical Hacking

_____