**MSEI-025** 

## 00562 P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

### Term-End Examination

### December, 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

- System analysis and design phase of Software 1. Development Life Cycle (SDLC) includes which of the following?
  - Parallel run (a) (b) Sizing
  - (c)Specification Freeze (d) All

#### 2. Risk analysis of a project is done in :

- System analysis phase (a)
- (b) Feasibility study
- Implementation phase (c)
- Maintenance phase (d)

- 3. Which of the following does not occur in phase-4 of the System Development Life Cycle (SDLC).
  - (a) Conduct interviews
  - (b) Train users
  - (c) Acquire hardware and software
  - (d) Test the new system

# 4. In SET protocol a customer sends a purchase order :

- (a) Encrypted with his public key
- (b) In plaintext form
- (c) Encrypted using Bank's Public key
- (d) Using digital Signature System
- 5. The \_\_\_\_\_ is code embedded in some legitimate program that is set to "explode" when certain conditions are met.
  - (a) Trap doors(b) Trojan Horse(c) Logic Bomb(d) Virus
- 6. What can you trust to be secure 100 percent of the time ?
  - (a) Text messages(b) Emails(c) Logic bomb(d) Virus
- 7. What is the main purpose of access control?
  - (a) To authorize full access to authorized users
  - (b) To limit the actions or operations that a legitimate user can perform
  - (c) To stop unauthorized users accessing resources
  - (d) To protect computers from viral infections

- 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. What is the default port number for apache and most web servers ?
  - (a) 20 (b) 40 (d) 120
  - (c) 80 (d) 120
- 10. Which of the following is true of improper error handling ?
  - (a) Attackers can use error messages to extract specific information from a system.
  - (b) Attackers can use unexpected errors to knock an application offline, creating DOS attack.
  - (c) Unexpected errors can provide an attacker with a buffer or stack overflow condition that sets the stage for an arbitrary code execution.
  - (d) All of the above

### **SECTION - B**

(Attempt all the questions)

5x2=10

- **11.** Define web application scanning.
- **12.** Describe buffer overflow attack.
- 13. Describe SQL Injection attack.
- 14. What are Information system threats ?
- 15. Write the basic principles of Information security.

### SECTION - C

### (Attempt any 2 out of 3 questions) 2x5=10

- **16.** What is the difference between a network vulnerability assessment and a penetration test ?
- 17. Describe passive and active attacks with example.
- **18.** Explain symmetric and asymmetric cryptography with example.

### SECTION - D

(Attempt any 2 out of 3 questions) 2x10=20

- **19.** Explain authentication, authorization and session management with example.
- 20. Explain Error Handling and Logging with example.
- **21.** Write short notes on the following :

5x2 = 10

- (a) 3D Security
- (b) DOS and DDOS attack
- (c) Digital signature
- (d) PKI
- (e) X SS attack