

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

**Term-End Examination**

**December, 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. A webpage displays a picture. What tag was used to display that picture ?  
(a) Picture (b) Image  
(c) img (d) Src
2. <b> tag makes the enclosed text bold. What is other tag to make text bold ?  
(a) <strong> (b) <dar>  
(c) black (d) <cmp>
3. \_\_\_\_\_ is a person who performs most of the same activities a hacker does, but with the owner or company's permission.  
(a) Tester (b) Ethical Hacker  
(c) Script kiddies (d) CBI

4. \_\_\_\_\_ is the other name for Script Kiddies.
- (a) Pocket Monkeys
  - (b) Penetration Testers
  - (c) Security Testers
  - (d) Good Hackers
5. Which of the following is not a model in penetration testing ?
- (a) white box model
  - (b) black box model
  - (c) red box model
  - (d) gray box model
6. TCP stands for \_\_\_\_\_.
- (a) Transmission Control Protocol
  - (b) Transport Control Based
  - (c) Transmission Congestion Protocol
  - (d) Transit Control Protocol
7. UDP is a \_\_\_\_\_ Protocol.
- (a) Connectionless
  - (b) Connection Oriented
  - (c) Synchronous
  - (d) Asynchronous
8. \_\_\_\_\_ is a computer virus encoded as a macro in programs that supports a macro language.
- (a) Virus
  - (b) Macro Virus
  - (c) Worm
  - (d) Trojans

9. What is the main purpose of access control ?
- (a) To authorise full access to authorised users.
  - (b) To limit the actions or operations that a legitimate user can perform.
  - (c) To stop unauthorised users accessing resources
  - (d) To protect computers from viral infections
10. The software or hardware components that records each keystroke a user enters into a word processing document is called a \_\_\_\_\_.
- (a) Sniffer
  - (b) Keylogger
  - (c) Trojan program
  - (d) Buffer overflow

### SECTION - B

(Attempt all the questions)

11. Explain Malicious Programs. 2
12. Describe asymmetric cryptography. 2
13. How do users prevent and protect themselves against viruses ? 2
14. What is XSS ? 2
15. What are the three ways to authenticate a person ? 2

### **SECTION - C**

(Attempt 2 out of 3 questions)

- |     |   |   |
|-----|---|---|
| 16. | Explain SSL, SMTP and HTTPS.  | 5 |
| 17. | What are Information System threats and attacks ?   | 5 |
| 18. | What are the basic principles of information security ? Also explain other terms in information security. | 5 |

### **SECTION - D**

(Attempt 2 out of 3 questions)

- |     |  |        |
|-----|--|--------|
| 19. | Define Active and Passive attacks. Explain the types of Active and Passive attacks with example. | 10     |
| 20. | Explain the concept of building security into software/system development life cycle.            | 10     |
| 21. | Write short notes on the following :   | 5x2=10 |
|     | (a) SQL Infection Attack   |        |
|     | (b) Buffer overflow attack   |        |
|     | (c) Digital signature  |        |
|     | (d) Ethical Hacking  |        |
|     | (e) PKI  |        |