

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

**Term-End Examination,**

**December 2019**

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

*Time : 2 Hours]*

*[Maximum Marks : 50*

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- Note : (i) Section-A :- Answer all the objective type questions.*  
*(ii) Section-B :- Answer all the very short answer type questions.*  
*(iii) Section-C :- Answer any two out of three short answer type questions.*  
*(iv) Section-D :- Answer any two questions out of three long answer type questions.*
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**Section - A**

Answer all the objective type questions.

1. The pattern that can be used to identify a virus is known as \_\_\_\_\_ 1
- (a) Stealth  
(b) Armoured  
(c) Virus signature  
(d) Multipartite

(2)

2. In computer system authentication is fundamental building block in \_\_\_\_\_. 1
- (a) Security context
  - (b) Control context
  - (c) Execution context
  - (d) Performance context
3. Intruder is a most common security threat which referred as \_\_\_\_\_. 1
- (a) Account access
  - (b) Data access
  - (c) Hacker or Cracker
  - (d) Computer access
4. In process, access control implements a \_\_\_\_\_. 1
- (a) Security policy
  - (b) Access policy
  - (c) Control policy
  - (d) Check policy
5. Which of the following are forms of malicious attack? 1
- (a) Theft of information
  - (b) Modification of data
  - (c) Wiping of information
  - (d) All
6. Which are common security threats? 1
- (a) File shredding
  - (b) File sharing and permission
  - (c) File corrupting
  - (d) File integrity

(3)

7. What is not a good practice for user administration? 1  
(a) Isolating a system after compromise  
(b) Perform rand auditing procedures  
(c) Using TELNET and FTP for remote access  
(d) None
8. Which of the following is least secure method of authentication? 1  
(a) Key card  
(b) Finger print  
(c) Retina pattern  
(d) Password
9. What forces the user to change password at first logon? 1  
(a) Default behavior of OS  
(b) Part of AES encryption practice  
(c) Devices being accessed forces the user  
(d) Account administrator
10. Which is not a best practice for Password policy? 1  
(a) Password encryption  
(b) Having change password every two years  
(c) Both  
(d) None

### Section - B

Answer all the very short answer type questions.

11. What are the types of Cookies? 2
12. What is a Honeypot? 2

(4)

13. Describe data decryption technique. 2
14. What are two forms of error handling? 2
15. What is Port scanning? 2

### Section - C

Answer **any two** questions out of the **three** short answer type questions.

16. Explain the three classes of intruders. 5
17. What do you understand by Authorization and Authentication? Why authorization is necessary? 5
18. Describe the following protocols:  $2 \times 2.5 = 5$
- a) FTP
  - b) POP3

### Section - D

Answer **two** questions out of the **three** long answer type questions.

19. Explain white box testing and its advantages and disadvantages over the Black box testing. 10
20. How Web browsing behavior distinguishes the users in continuous authentication system? What are the common issues with PIN-based systems? 10
21. Write short notes on the following:  $5 \times 2 = 10$
- a) PKI
  - b) Mail Transport Agent
  - c) SQL Injection
  - d) XSS attack
  - e) Spoofing

