

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

Term-End Examination

June, 2021

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

Time : 2 hours

Maximum Marks : 50

Note :

*Section A – Answer **all** the Objective Type questions.*

*Section B – Answer **all** the very Short Answer Type questions.*

*Section C – Answer any **two** questions out of three Short Answer Type questions.*

*Section D – Answer any **two** questions out of three Long Answer Type questions.*

SECTION A

*Answer **all** the objective type questions.*

1. _____ is an authorized simulated cyber attack on a computer system, performed to evaluate the security of the system. 1

2. ISPF is a virus. 1
 - (a) True
 - (b) False

3. _____ is a process of keeping track of user's activity of interaction with a computer system or website. 1
4. Which of the following standard applies to email as a message handling protocol ? 1
- (a) X.800
 - (b) X.400
 - (c) X.509
 - (d) X.500
5. Choose the correct HTML tag for the largest heading. 1
- (a) <HEAD>
 - (b) <H6>
 - (c) <H10>
 - (d) <H1>
6. UDP is a _____ Protocol. 1
- (a) Asynchronous
 - (b) Synchronous
 - (c) Connection-oriented
 - (d) Connectionless
7. STA stands for System Testing Architecture. 1
- (a) True
 - (b) False

8. Authentication Attack is a type of Malware Attack. 1
- (a) True
 - (b) False
9. Which of the following malicious programs do **not** replicate automatically? 1
- (a) Bots
 - (b) Worm
 - (c) Virus
 - (d) Trojan Horse
10. What does XML stand for? 1
- (a) Extensible Markup Language
 - (b) Extra Modern Link
 - (c) Example Markup Language
 - (d) X-markup Language

SECTION B

Answer ***all*** the very short answer type questions.

11. Differentiate between Hacker and Cracker. 2
12. Differentiate between Active and Passive attacks. 2
13. Explain two forms of error handling briefly. 2
14. Explain Black Box Testing. 2
15. Explain Asymmetric Cryptography. 2

SECTION C

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

- 16.** Explain Buffer Overflow attack and how to prevent it. 5
- 17.** Describe Authorization and Authentication. Why are they necessary? 5
- 18.** Explain threat, vulnerabilities and risk. 5

SECTION D

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

- 19.** Describe Malicious Program. Write the types of malicious programs and explain them. 10
- 20.** Explain types of challenges faced by web application scanners. 10
- 21.** Describe the concept of building security into software/system development life cycle. 10
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