

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

Term-End Examination

December, 2022

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

Time : 2 Hours

Maximum Marks : 50

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.

Section—A

Note : Answer all the objective type questions.

10×1=10

1. Which practice help secure the configuration utilities on wireless access points from unauthorized access ?

(a) Assigning a private IP address to the AP

P. T. O.

- (b) Configuring a new administrator password
 - (c) Configuring traffic filtering
 - (d) None of the above
2. TLS stands for
3. Which answer is not true for Diffie-Hellman algorithm ?
- (a) Security stems from the difficulty of calculating the product of two large prime numbers.
 - (b) It was the first public key exchange algorithm.
 - (c) It is vulnerable to man-in-the-middle attacks.
 - (d) None of the above
4. In what way does the RSA algorithm differ from the Data Encryption Standard (DES) ?
- (a) It cannot produce a digital signature.
 - (b) It terminates the need for a key distribution center.
 - (c) It is based on a symmetric algorithm.
 - (d) It uses a public key for encryption.
5. In which step of SDLC project termination could be done ?
- (a) Design phase
 - (b) System maintenance phase
 - (c) Feasibility study phase
 - (d) Coding phase

6. Which testing enables the tester to evaluate the software behaviour when exceptions occur ?
 - (a) Fault injection testing
 - (b) Fuzz testing
 - (c) Active testing
 - (d) Passive testing
7. Which of the following blocks are used for error handling in SQL server ?
 - (a) Try.....Catch
 - (b) Try.....Final
 - (c) Try.....End
 - (d) Catch.....Try
8. Which of the following statements can be checked for errors ?
 - (a) CREATE
 - (b) DROP
 - (c) DELETE
 - (d) INSERT
9. What is the ethics behind training how to hack a system ?
 - (a) To think like hackers and know how to defend such attacks.
 - (b) To hack a system without the permission.
 - (c) To hack a network that is vulnerable.
 - (d) To corrupt software or service using Malware.

10. has now evolved to be one of the most popular automated tools for unethical hacking.
- (a) Automated Apps
 - (b) Database Software
 - (c) Malware
 - (d) Worms

Section—B

Note : Answer all the very short answer type questions. 5×2=10

- 11. What is Cyber Security ?
- 12. What are forces driving the need for application security ?
- 13. Discuss service delivery model.
- 14. Give an example of STRUTS input validation.
- 15. How spyware are dangerous threat than viruses ?

Section—C

Note : Answer any *two* questions out of three short answer type questions. 2×5=10

- 16. List down the factors that can cause vulnerabilities.
- 17. List down any *five* main types of security testing as per open source security testing methodology manual.
- 18. What is SOAP and WSDL ?

Section—D

Note : Answer any *two* questions out of three long answer type questions. 2×10=20

19. Write short notes on the following :
- (a) V model of software testing
 - (b) Pass-fail criteria
 - (c) Cross-site scripting
 - (d) SQL injection
 - (e) Canonicalization
20. How many parties are broadly involved in authentication? Explain the role of each party.
21. What is the difference between a threat, vulnerability and a risk ? Explain the advantages of implementing the policies related to information security ?