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OSEI-044

**ADVANCED CERTIFICATE IN
INFORMATION SECURITY**

(A. C. I. S. E.)

Term-End Examination

June, 2022

OSEI-044 : SERVER SECURITY

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 out of three Short answer type questions.*

Section D : *Answer any two out of three Long answer type questions.*

P. T. O.

Section—A

Note : Attempt all the objective type questions.

10×1=10

1. In which of the following exploits does an attacker insert malicious code into a link that appears to be from a trustworthy source ?
 - (a) XSS
 - (b) Command injection
 - (c) Path traversal attack
 - (d) Buffer overflow

2. Which of the following is considered as the unsolicited commercial e-mail ?
 - (a) Virus
 - (b) Malware
 - (c) Spam
 - (d) All of the above

3. Which of the following refers to stealing one's idea or invention of others and use it for their own benefits ?
 - (a) Piracy
 - (b) Plagiarism
 - (c) IPR
 - (d) All of the above

4. Which of the following refers to the violation of the principle if a computer is no more accessible ?
 - (a) Access control
 - (b) Confidentiality
 - (c) Availability
 - (d) All of the above

5. Which one of the following refers to the technique used for verifying the integrity of the message ?
 - (a) Digital signature
 - (b) Decryption algorithm
 - (c) Protocol
 - (d) Message digest

6. Which of the following can be considered as the elements of cyber security ?
 - (a) Application security
 - (b) Operational security
 - (c) Network security
 - (d) All of the above

7. The term CHAP stands for
- (a) Challenge Handshake Authentication Protocols
 - (b) Circuit Handshake Authentication Protocols
 - (c) Challenge Hardware Authentication Protocols
 - (d) None of the above
8. IIS stands for
- (a) Interconnected Information Server
 - (b) Internet Information Services
 - (c) Internet Information Server
 - (d) None of the above
9. tool clears the log entries in the IIS log files filtered by an IP address.
- (a) Clean IIS logging
 - (b) Clean logger
 - (c) Clean IIS log
 - (d) None of the above

10. What is the sequence of a TCP connection ?
- (a) SYN-ACK-FIN
 - (b) SYN, SYN-ACK, ACK
 - (c) SYN-ACK
 - (d) None of the above

Section—B

Note : *Attempt all the very short answer type questions.* $5 \times 2 = 10$

11. Compare e-mail forgery and e-mail spoofing.
12. Differentiate between cracking and hacking.
13. Briefly discuss the term vector, in context of cyber security.
14. What is a social engineering attack ? Give an example.
15. How does stream cipher differ from block cipher ?

Section—C

Note : *Attempt any **two** out of three short answer type questions.* $2 \times 5 = 10$

16. What is eaves dropping ? Explain active and passive attacks with examples.

17. How to identify whether windows has been hacked ? List the various identification markers (at least *five*).
18. Discuss Pretty Good Privacy (PGP) in detail.

Section—D

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

19. What are PIN-Based systems ? Discuss the common issues with PIN-Based systems.
20. What are digital signatures ? Discuss the working of digital signature with suitable diagram.
21. What is the difference between physical data security and software-based data security ? Give suitable example for each.