

**ADVANCED CERTIFICATE IN
INFORMATION SECURITY
(ACISE)**

Term-End Examination

June, 2026

**OSEI-042 : SECURING INTERNET
ACCESS**

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 out of three long answer type questions.

Section—A

Note : *Attempt all the objective type questions.*

1. A hacker contacts you on phone or e-mail and attempts to acquire your password is called : 1
 - (a) Phishing
 - (b) Spamming
 - (c) Bugging
 - (d) Spoofing
2. An attempt to make a computer resource unavailable to its intended users is called : 1
 - (a) Botnet process
 - (b) Worms attack
 - (c) Virus attack
 - (d) Denail-of-service attack
3. What is Wired Equivalent Privacy (WEP) ? 1
 - (a) Security algorithm for wireless networks
 - (b) Security algorithm for USB communication
 - (c) Security algorithm for ethernet
 - (d) None of the above

4. A virtual private network creates a through the internet. 1
- (a) SSH Session
- (b) BRI
- (c) Tunnel
- (d) Connection
5. What is WPA ? 1
- (a) Wi-Fi Process Access
- (b) Wired Process Access
- (c) Wired Protected Access
- (d) Wi-Fi Protected Access
6. The formula for calculating single loss expectancy or SLE is : 1
- SLE =
7. TKIP stands for 1
8. S Stands for in HTTPs. 1
9. Each channel in Bluetooth layer is of MHz. 1
10. CSIRT stands for 1

Section—B

Note : *Attempt all the very short answer type questions.*

11. How does one get infected with Spyware ? 2
12. Write about the functions of firewall. 2
13. What do you mean by SQL injection ? 2
14. What are the advantages of cookies with respect to the speed of the Internet ? 2
15. Discuss Identity theft. 2

Section—C

Note : *Attempt any **two** out of three short answer type questions.*

16. Provide the key security issues for SOAP web services. 5
17. Classify cyber crime depending on the victim. Briefly describe each of them. 5
18. Describe the major tasks employing digital forensics tools. 5

Section—D

Note : Attempt any **two** out of three long answer type questions.

19. What is Digital Certificate ? What information does a digital certificate store ? How does it help in safe online transactions ? 10
20. Explain the security design considerations in web services. 10
21. What are security issues in the social networking sites ? 10

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