

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

Term-End Examination

June, 2026

OSEI-044 : SERVER SECURITY

Time : 2 Hours

Maximum Marks : 50

Note : (i) Answer **all** the objective type questions.

(ii) Answer all the very short answer type questions.

(iii) Answer any **two** out of **three** short answer type questions.

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

Section—A

Note : Attempt all the questions. 10×1=10

1. is a collection of protocols designed by the IETF to provide security for a packet at the network level.
 - (a) SSL
 - (b) IPSec
 - (c) PGP
 - (d) None of the above
2. software are programs that are installed into your computer and can scan and remove known viruses which you may have contracted.
 - (a) Keylogger
 - (b) Firmware
 - (c) Antivirus
 - (d) Adware
3. One security protocol for the e-mail system is
 - (a) SSL
 - (b) PGP
 - (c) IPSec
 - (d) None of the above

4. is an approach to restricting system access to authorized users.
- (a) Job-based access control
 - (b) Process-based access control
 - (c) Role-based access control
 - (d) None of the above
5. Access matrix model for user authentication contains :
- (a) A list of domains
 - (b) A list of objects
 - (c) A function which returns an object's type
 - (d) All of the above
6. Which one of the following allows a user at one site to establish a connection to another site and then pass key strokes from local host to remote host ?
- (a) FTP
 - (b) Telnet
 - (c) HTTP
 - (d) None of the above

7. Where is a hub specified in OSI model ?
 - (a) Application layer
 - (b) Data link layer
 - (c) Physical layer
 - (d) Session layer
8. Which class of IP addresses has the most host addresses available by default ?
 - (a) C
 - (b) B
 - (c) A
 - (d) A and B
9. A provides privacy for LANs that must communicate through the global internet.
 - (a) VNP
 - (b) VNN
 - (c) VPN
 - (d) VPP
10. Extensible authentication protocol is authentication framework frequently used in
 - (a) Wired Local Area Networks
 - (b) Wired Personal Area Network
 - (c) Wireless Networks
 - (d) None of the above

Section—B

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

11. What is social engineering attack ?
12. What do you mean by eavesdropping ?
13. How to stop E-mail spamming ?
14. Explain the SSL handshake protocol.
15. What do you understand by privilege escalation ?

Section—C

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

16. Describe the various security services provided by the Web Server.
17. What is the difference between physical data security and software-based data security ?
18. What can be done to stop wireless denial-of-service attacks ?

Section—D

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

19. What is Botnet ? How botnets can impact you ? How to prevent your computer becoming part of a botnet ?
20. Explain WEP and WAP2 in detail.
21. What is IDS ? Explain Intrusion Detection and Prevention System (IDPS) with example.

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