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OSEI-042

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

Term-End Examination

December, 2025

OSEI-042 : SECURING INTERNET ACCESS

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.

A-233/OSEI-042

P. T. O.

Section—A

Note : *Attempt all objective type questions.*

1. WPA2 is used for security in : 1
 - (a) Wi-Fi
 - (b) Ethernet
 - (c) Bluetooth
 - (d) None of the above

2. A protocol used to control the Secure Sending of data on the Internet is : 1
 - (a) SMTP
 - (b) TCP/IP
 - (c) HTTPs
 - (d) HTTP

3. Password based authentication can be divided into two broad categories : and 1
 - (a) fixed; one-time
 - (b) stamped; fixed
 - (c) fixed; variable time
 - (d) None of the above

4. A program that performs a useful task while simultaneously allowing destructive acts is a : 1
- (a) Macro
 - (b) Virus
 - (c) Trojan Horse
 - (d) Worm
5. Digital signature cannot provide for the message : 1
- (a) Confidentiality
 - (b) Non-repudiation
 - (c) Authentication
 - (d) Integrity
6. WEP stands for 1
7. is a piece of software which enhances another application software and usually cannot run independently. 1
8. The creation of hoax look-alike websites or e-mails is called 1

9. A text file used for checking user's Internet related activities is called 1
10. Cookies which are automatically recreated after a user has deleted it are called cookie. 1

Section—B

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

11. Write a short note on TLS Protocol. 2
12. What are the functions of firewall ? 2
13. Explain Uniform Resource Identifier. 2
14. What do you mean by e-mail jamming ? 2
15. What is computer security incident ? 2

Section—C

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

16. How is web service activated ? 5
17. Explain digital watermarking and its relevance in cybersecurity. 5
18. How does credit card fraud occur ? 5

Section—D

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

19. What is Phishing ? How does it work ? How can a user prevent him from being a victim of phishing attack ? 10
20. Parents understand the need of their children to be acquainted with new technology but they are worried about the cyber threats which can harm their children in different ways. Give suggestions to the parents for protecting their children from such cyber threats. 10
21. Explain web services security standards in detail. Also discuss the threats and attacks with respect to session management. 10

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