

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

Term-End Examination

December, 2025

**OSE-043 : INFORMATION TECHNOLOGY
SECURITY**

Time : 3 Hours

Maximum Marks : 70

Note : Section A : *Answer all the questions.*

Section B : *Answer all the questions.*

Section C : *Answer any **three** questions
out of four questions.*

Section—A

Note : *Answer all the questions.*

1. Fill in the blanks : 3×1=3

- (a) An attacker uses a tool to exploit the
..... to perform an action on a target
in order to achieve an authorized result.

- (b) is defined as ‘Anything that has value to the organization’.
- (c) IPsec stands for
2. Write short notes on the following : 4×3=12
- (a) Cyber Defamation
- (b) Electronic Evidence
- (c) P3P
- (d) Web of Trust

Section—B

3. Describe the need of data protection and privacy. 5
4. Explain how cyber crimes affect the government. 5
5. Explain the features and benefits of security certification. 5
6. Discuss the role of evaluation authority after evaluating the security aspect of any IT product. 5

7. Explain the Plan-Do-Check-Act (PDCA) process. 5

Section—C

8. Give your suggestions for the prevention of cybercrimes. Do you think that IT law needs more amendments to adequately address all the cybercrimes ? Discuss. 10
9. Explain various components used in designing the security architecture. 10
10. Explain the different types of Intrusion Detection System (IDS) with their advantages and disadvantages. 10
11. Explain the procedure to disclose information in public. 10

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