

**Fourth Semester FYUGP Degree (Reg) Examination April
2026**

KU4DSCCSY207 - INFORMATION SECURITY

2024 Admission onwards

Time : 2 hours

Maximum Marks : 70

Section A

Answer any 6 questions. Each carry 3 marks.

1. What is ransomware?
2. Define the term Vulnerability in the context of cyber threats.
3. Explain the ingredients of a public key cryptosystem.
4. What is non-repudiation in digital signatures?
5. Define Public Key Infrastructure.
6. What is SLS?
7. What are the differences between WPA2 and WPA3?
8. Define web application security.

Section B

Answer any 4 questions. Each carry 6 marks.

9. Describe the RSA algorithm.
10. Explain the advantages of Elliptic Curve Cryptography.
11. Explain how digital signatures work.
12. Explain how SSL secures web traffic.
13. Explain the importance of secure coding practices.
14. Explain Cross-Site Request Forgery.

Section C

Answer any 2 questions. Each carry 14 marks.

15. Describe the SHA-256 Algorithm.
16. Illustrate various Block Cipher Modes.
17. Describe the basic security controls used in network defense.