

INDIRA UNIVERSITY, PUNE

SCHOOL OF INFORMATION TECHNOLOGY- BSC CYS

Backlog Examination (2025 Pattern) April/ May – 2026 - Semester – I

Subject Name: Fundamentals of Cyber Security
Subject Code: 25CYS101T

Max. Marks: 25
Time: 1:30 Hrs.

Instructions

- All Questions are Compulsory.

CO #	Cognitive Ability	Course Outcome
CO1	Remember	Explain key security concepts, policies, and vulnerabilities in cybersecurity.
CO3	Apply	Describe processes for planning, implementing, and maintaining security measures and assurance strategies.
CO4	Analyse	Apply suitable security controls, policies, and monitoring methods to protect information systems in operational environments.

Q1.	Attempt any 5 out of 7. (1 mark each) a) What is meant by data and information? b) List any two types of security threats. c) What is meant by access control? d) Define social engineering e) Define term 'Worm'? f) What is churning? g) Define Risk Management.	(5 Marks)	CO1
Q2.	Attempt any 2 out of 4. (5 marks each) a) Explain components of the Information Systems. b) Illustrate the importance of confidentiality, integrity, and availability in cybersecurity. c) Classify the 3 key components of the security.(AAA) d) Explain E-Commerce advantages.	(10 Marks)	CO2
Q.3.	Attempt all questions. (5 marks each) a) Identify type of the card gives you better protection, when the situation occurred "your card information is stolen". b) How would you apply the steps of SDLC to develop a secure online admission system? OR	(10 Marks)	CO3

Q.3	Solve the following questions. a) Apply the concept of digital signatures to verify the sender's identity in an email. (3 Marks) b) Apply suitable examples to show how attackers extract sensitive data using cold-boot or reverse-engineering methods. (4 Marks) c) Identify how license management supports cybersecurity and legal compliance. (3 Marks)	CO3
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