Roll No: | | | | | | | | | | | |

GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

PRESIDENCY UNIVERSITY

Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 | Established under Section 2(f) of UGC Act, 1956
Approved by AICTE, New Delhi | Approved By BCI
Bengaluru

Mid Term Examinations - October 2026

Date: 05/10/2026 **Time:** 09:30 AM - 11:00 AM

Course Code: IST3413 **Course Name:** Cyber Security and Data Privacy

Semester: Fifth Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	44	46

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	What is the purpose of ISO 27001?	2	CO1	BT1
2	What is meant by defense in depth in cyber security?	2	CO1	BT1
3	What is a hash function? State its purpose.	2	CO2	BT1
4	What is a firewall? State its primary function.	2	CO2	BT1
5	Differentiate between DNS and DHCP.	2	CO2	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Explain the working mechanism of ransomware attacks and discuss suitable preventive and recovery measures.	10	CO1	BT2
7	Design a risk assessment process for an organization that handles sensitive customer information.	10	CO1	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Explain the purpose of security protocols and discuss how they contribute to secure communication between networked systems.	10	CO1	BT2
9	Explain the cyber threat landscape and discuss the different categories of threats affecting modern information systems.	10	CO1	BT4

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Explain the architecture of Public Key Infrastructure (PKI) and discuss the functions of its major components.	10	CO2	BT2
11	Explain CIDR and subnetting with suitable examples and discuss their importance in IP address management.	10	CO2	BT2

PART E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT

12	Explain the roles of DNS, DHCP and IP in a computer network and describe how they work together.	10	CO2	BT2
13	Explain the architecture and working of SSH. Discuss how SSH provides secure remote access.	10	CO2	BT2