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

PRESIDENCY UNIVERSITY

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GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

Mid Term Examinations - October 2026

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

Course Code: CSE2502 **Course Name:** Cryptography and Network Security

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

CO - Levels	CO1	CO2	CO3
Marks	44	22	24

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Mention the advantages of cryptography.	2	CO1	BT1
2	Describe passive attacks.	2	CO1	BT1
3	Describe block cipher.	2	CO2	BT2
4	Describe permutation in Feistel cipher.	2	CO3	BT3
5	Describe considerations in the design of Feistel cipher.	2	CO3	BT3

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Apply Hill cipher to convert plain text: exam into cipher text with key: HILL.	10	CO1	BT3
7	Explain security in OTP cipher.	10	CO1	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Apply Hill cipher to convert cipher text:APADJ TFTWLFJ into plain text with key: HILL.	10	CO1	BT3
9	Explain Vignere cipher in cryptography.	10	CO1	BT2

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Explain single round of DES algorithm.	10	CO2	BT2
11	Explain the ways substitution and permutation can be performed on Feistel cipher structure.	10	CO2	BT3

PART E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
12	Explain procedures involved in DES encryption.	10	CO3	BT2
13	Explain processed involved in AES.	10	CO3	BT2