

JAMIA HAMDARD
Department of Computer Science & Engineering
School of Engineering Sciences & Technology
New Delhi-110062

Even End Semester Examination 2023 (Backlog)

Course: BTech (CSE) and (Lateral entry) 8th semester

Paper Name: Network security
and cryptography

Paper Code: BTCSE DED 62 + Lateral BTCSE DED 62

Time: 3 Hours

Maximum Marks: 75

Note: Follow proper numbering for answering the questions. Assume missing data, if any.

BL - Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3-Applying, 4 - Analysing, 5 - Evaluating, 6 - Creating)

Section- A
(Attempt all questions)

7*5=35

Q.NO	QUESTIONS	CO	BL
1	With the help of an example, explain Transposition cipher?	CO1	BL2
2	What is Trapdoor one way function?	CO2	BL1
3	What are the properties a digital signature should have?	CO3	BL1
4	Explain the security protocols of e-mail?	CO4	BL2
5	Explain X.509 format ?	CO4	BL5
6	Differentiate between linear and differential cryptanalysis.	CO4	BL1
7	Explain the phases of virus?	CO5	BL1 +BL3+BL6

Section- B
(Attempt any 4 questions)

4*10=40

Q.NO	QUESTIONS	CO	BL
1	Discuss in detail block cipher mode of operations?	CO1	BL2
2	Explain SHA algorithm in detail?	CO3	BL4
3	Write short notes: (any 2) a) IDS b) Honey pots c) Firewalls	CO4	BL2
4	Draw the general structure of DES and explain?	CO4	BL3
5	What is chinese remainder theorem?	CO5	BL5
6	How MITM attack takes place? Explain.	CO1	BL2