

# DEPARTMENT OF APPLIED MATHEMATICS

## DELHI TECHNOLOGICAL UNIVERSITY

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### Computer Networks (MC308)

#### ASSIGNMENT-III

1. How does Encryption/ Decryption protect storage or transport of information?
2. Compress the given data string using LZ encoding technique: WEDWEWEEWEBWET
3. Explain the importance of DCT and Quantization for image compression.
4. What are the roles of User Agent and MTA in an electronic mail?
5. Write a short note on:
  - i. Virtual Terminal
  - ii. Public and Private networks
6. Perform Huffman coding on the following set of characters:

Character	a	e	i	o	u	s
Frequency	45	13	12	16	9	5

7. State the drawbacks of Lossy compression techniques.
8. Explain the working of Domain name system.
9. Explain the Kernel activity attribute of a file.
10. Why is translation required in the presentation layer for data transmission?