DEPARTMENT OF APPLIED MATHEMATICS

DELHI TECHNOLOGICAL UNIVERSITY

AY 2025-26

Computer Networks (MC305)

<u>ASSIGNMENT-III</u>

1. How does Encryption/ Decryption protect storage or transport of information? **[CO6]**

2. Compress the given data string using LZ encoding technique: WEDWEWEEWEBWET
   [CO6]

3. Explain the importance of DCT for image compression. **[CO6]**

4. What are the roles of User Agent and MTA in an electronic mail? **[CO5]**

5. Write a short note on: **[CO5]**

   i. Virtual Terminal

   ii. Public and Private networks

6. Perform Huffman coding on the following set of characters: **[CO5]**

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

7. State the advantages of Lossless compression techniques. **[CO5]**

8. Explain the working of Domain name system. **[CO5]**

9. Explain the Kernel activity attribute of a file. **[CO5]**

10. Why is translation required in the presentation layer for data transmission? **[CO6]**