

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA I Year II Semester Regular & Supplementary Examinations June/July-2025
COMPUTER NETWORKS

Time: 3 Hours**Max. Marks: 60**

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 Describe the Transmission Media and their types of Transmission Media. **CO3 L2 12M**

OR

- 2 a What is pure ALOHA and slotted ALOHA? **CO1 L1 6M**
b Explain about TDM. **CO2 L1 6M**

UNIT-II

- 3 a Explain distance vector routing algorithm. **CO2 L1 6M**
b Explain shortest path routing. **CO2 L1 6M**

OR

- 4 Show the general principles of various congestion control algorithms. **CO5 L1 12M**

UNIT-III

- 5 a Explain the detailed about types of Fragmentation. **CO1 L1 6M**
b Discuss about multicasting techniques & protocols. **CO3 L2 6M**

OR

- 6 What is ATM? Describe detail about ATM. **CO1 L1 12M**

UNIT-IV

- 7 a Evaluate functions of transport layer, state transport service primitives. **CO6 L5 6M**
b Discuss various flow control mechanisms in transport layer. **CO3 L2 6M**

OR

- 8 How does UDP differ from TCP? List the applications of UDP. **CO1 L1 12M**

UNIT-V

- 9 Explain briefly about the DNS, MIME. **CO1 L2 12M**

OR

- 10 Describe details about Cryptographic algorithms. **CO1 L2 12M**

***** END *****