

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
COMPUTER NETWORKS (23CS502)**

**Unit wise Question Bank**

**UNIT-1**

| S.No                          | PART-A(Short Questions)   |  | BT | CO  | PO       |
|-------------------------------|---|--|----|-----|----------|
| 1                             | List the difference between logical, physical and port address.                                 |  | L1 | CO1 | PO1      |
| 2                             | Compare and contrast LAN,MAN and WAN.   |  | L4 | CO1 | PO2      |
| 3                             | List out different kinds of addresses that are employed in TCP/IP model.                        |  | L1 | CO1 | PO1      |
| 4                             | What are the advantages of twisted pair over two-wire line.                                     |  | L1 | CO1 | PO1      |
| 5                             | List two advantages and disadvantages of having international Standards for network, Protocols? |  | L1 | CO1 | PO2      |
| 6                             | What is the advantage of layered architecture in networks                                       |  | L1 | CO1 | PO1      |
| 7                             | Write the applications of Infrared Waves.   |  | L1 | CO1 | PO1      |
| 8                             | What is encapsulation and de capsulation.   |  | L1 | CO1 | PO1      |
| 9                             | Explain the protocols used at network layer in TCP/IP protocol                                  |  | L1 | CO1 | PO1      |
| 10                            | State three difference between OSI and TCP/IP model   |  | L3 | CO1 | PO2      |
| <b>Part-B(Long Questions)</b> |   |  |    |     |          |
| 11                            | a)  | Write a short note on ARPANET.   | L1 | CO1 | PO1, PO2 |
|                               | b)  | Explain the software layers of OSI Model.                                      | L1 | CO1 | PO1, PO2 |
| 12                            | a)  | Explain different types of Networks.   | L1 | CO1 | PO1, PO2 |
|                               | b)  | Explain about different topologies.  | L1 | CO1 | PO1, PO2 |
| 13                            | a)  | Explain about wireless transmission.   | L1 | CO1 | PO1, PO2 |
|                               | b)  | Explain about TCP/IP reference Model.  | L1 | CO1 | PO1, PO2 |
| 14                            | a)  | Explain the difference between TCP/IP and OSI Model.                           | L1 | CO1 | PO1, PO2 |
|                               | b)  | Discuss about Internet standards.  | L2 | CO1 | PO1, PO2 |
| 15                            | a)  | Explain about various transmission media in physical layer with A neat sketch. | L3 | CO1 | PO1, PO2 |
|                               | b)  | Write about twisted pair cable and coaxial cable.                              | L1 | CO1 | PO1, PO2 |
| 16                            | a)  | Explain the advantages of computer networks.                                   | L1 | CO1 | PO1, PO2 |
|                               | b)  | Explain the hardware layers in OSI layers.                                     | L1 | CO1 | PO1, PO2 |