

Reg. No:

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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)  
**B.Tech II Year I Semester Regular & Supplementary Examinations March-2023**  
**COMPUTER NETWORKS**  
(Common to CCC & CIC)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- |    |   |     |    |    |
|----|---|-----|----|----|
| 1  | a Justify physical layer in computer networks.                | CO1 | L5 | 6M |
|    | b Discuss about responsibilities of physical layer in detail. | CO1 | L2 | 6M |
| OR |   |     |    |    |
| 2  | a Write notes on i) Radio Wave ii) Micro wave.                | CO1 | L4 | 6M |
|    | b Briefly explain about different unguided media.             | CO1 | L2 | 6M |

**UNIT-II**

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|----|---|-----|----|----|
| 3  | a Explain briefly about error detection in data link layer.                 | CO2 | L2 | 6M |
|    | b Justify what are the error correction techniques used in data link layer. | CO2 | L5 | 6M |
| OR |   |     |    |    |
| 4  | a Write about the services provided by the Data link layer.                 | CO2 | L4 | 6M |
|    | b Classify the Data Link Layer Design Issues                                | CO2 | L4 | 6M |

**UNIT-III**

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|----|--|-----|----|-----|
| 5  | a Explain distance vector routing algorithm.                     | CO3 | L2 | 6M  |
|    | b Briefly state what is count to infinity problem.               | CO3 | L2 | 6M  |
| OR |  |     |    |     |
| 6  | List and explain congestion control algorithms in network layer. | CO3 | L1 | 12M |

**UNIT-IV**

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|----|--|-----|----|----|
| 7  | a Summarize congestion control in transport layer.                 | CO4 | L2 | 6M |
|    | b Write in detail about Remote Procedure Call.                     | CO4 | L4 | 6M |
| OR |  |     |    |    |
| 8  | a Elaborate each field of TCP segment header with neat diagram.    | CO4 | L5 | 6M |
|    | b Explain the three way handshake protocols with suitable diagram. | CO4 | L2 | 6M |

**UNIT-V**

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|----|---|-----|----|-----|
| 9  | Discuss about File Transfer Protocol with neat diagram. | CO5 | L2 | 12M |
| OR |   |     |    |     |
| 10 | a Describe SMTP protocol.                               | CO5 | L2 | 6M  |
|    | b Discuss in detail SNMP.                               | CO5 | L2 | 6M  |

\*\*\* END \*\*\*



