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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**B.Tech III Year I Semester Supplementary Examinations December-2021**

**COMPUTER NETWORKS**

(Common to CSE & CSIT)

Time: 3 hours

Max. Marks: 60

**PART-A**

(Answer all the Questions 5 x 2 = 10 Marks)

- |   |  |    |    |
|---|--|----|----|
| 1 | a Define computer network.                       | L1 | 2M |
|   | b Define ARP                                     | L1 | 2M |
|   | c Define routing algorithm.                      | L1 | 2M |
|   | d Distinguish between contention and congestion. | L4 | 2M |
|   | e What is the use of File Transfer Protocol?     | L1 | 2M |

**PART-B**

(Answer all Five Units 5 x 10 = 50 Marks)

**UNIT-I**

- |   |  |    |    |
|---|--|----|----|
| 2 | a Summarize various network types.         | L5 | 5M |
|   | b Illustrate the architecture of Internet. | L4 | 5M |

**OR**

- |   |                                |    |     |
|---|--------------------------------|----|-----|
| 3 | Write about OSI network model. | L3 | 10M |
|---|--------------------------------|----|-----|

**UNIT-II**

- |   |   |    |     |
|---|---|----|-----|
| 4 | Discuss bit-oriented HDLC Protocol with the elaborative explanation of its frames | L2 | 10M |
|---|---|----|-----|

**OR**

- |   |                                      |    |    |
|---|--------------------------------------|----|----|
| 5 | a Discuss about GO BACK N Protocol.  | L2 | 5M |
|   | b Explain Selective repeat Protocol. | L2 | 5M |

**UNIT-III**

- |   |  |    |     |
|---|--|----|-----|
| 6 | Explain in detail about congestion control algorithms. | L2 | 10M |
|---|--|----|-----|

**OR**

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|---|--|----|----|
| 7 | a Explain distance vector routing algorithm.       | L2 | 5M |
|   | b Briefly state what is count to infinity problem? | L2 | 5M |

**UNIT-IV**

- |   |  |    |    |
|---|--|----|----|
| 8 | a List the transport service primitives.         | L1 | 3M |
|   | b Explain about the elements of transport layer. | L2 | 7M |

**OR**

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|---|--|----|-----|
| 9 | Explain the three way handshake protocols with suitable diagram. | L2 | 10M |
|---|--|----|-----|

**UNIT-V**

- |    |   |    |     |
|----|---|----|-----|
| 10 | Write in detail about DNS Name Space and Domain Resource records. | L5 | 10M |
|----|---|----|-----|

**OR**

- |    |                                    |    |    |
|----|------------------------------------|----|----|
| 11 | a Write about static web pages.    | L3 | 5M |
|    | b Explain about dynamic web pages. | L2 | 5M |

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