

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

B.Tech. IV Year I Semester Regular Examinations February-2024
COMPUTER NETWORKS

(Computer Science & Information Technology)

Time: 3 Hours

Max. Marks: 60

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

UNIT-I

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|---|---|-----------------------------------------------------------|-----|----|----|
| 1 | a | Define Network and elaborate the Network criteria. | CO1 | L1 | 6M |
| | b | Define computer networks, Specify Computer Network Types. | CO1 | L1 | 6M |

OR

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|---|--|-----------------------------------------------|-----|----|-----|
| 2 | | Explain in detail about TCP/IP Network model. | CO1 | L2 | 12M |
|---|--|-----------------------------------------------|-----|----|-----|

UNIT-II

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|---|---|---------------------------------------------------|-----|----|----|
| 3 | a | What is framing? Explain with frame architecture. | CO2 | L2 | 6M |
| | b | Describe flow control in data link layer. | CO2 | L2 | 6M |

OR

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|---|---|------------------------------------------------------------------|-----|----|----|
| 4 | a | Explain Cyclic Redundancy check method used for error detection. | CO2 | L2 | 6M |
| | b | Describe about checksum in data link layer. | CO2 | L2 | 6M |

UNIT-III

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|---|--|------------------------------------------|-----|----|-----|
| 5 | | Explain about Static Routing algorithms. | CO3 | L2 | 12M |
|---|--|------------------------------------------|-----|----|-----|

OR

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|---|---|--------------------------------------------|-----|----|----|
| 6 | a | Discuss about Broadcast routing algorithm. | CO3 | L2 | 6M |
| | b | Discuss about Multicast routing algorithm. | CO3 | L2 | 6M |

UNIT-IV

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|---|--|---------------------------------------------------------------------------------|-----|----|-----|
| 7 | | Illustrate the different Primitives used for transport service. Elaborate them. | CO4 | L3 | 12M |
|---|--|---------------------------------------------------------------------------------|-----|----|-----|

OR

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| 8 | | Write in detail about User Datagram Protocol (UDP). | CO4 | L4 | 12M |
|---|--|-----------------------------------------------------|-----|----|-----|

UNIT-V

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|---|---|-----------------------------------------------------------------------|-----|----|----|
| 9 | a | List out the four main properties of HTTP. | CO5 | L1 | 6M |
| | b | Illustrate in detail about function and structure of e-mail protocol. | CO5 | L3 | 6M |

OR

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|----|--|----------------------------------------------------------|-----|----|-----|
| 10 | | Discuss the features of HTTP and explain how HTTP works. | CO5 | L2 | 12M |
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