

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

B.Tech III Year I Semester Supplementary Examinations June-2024

COMPUTER NETWORKS

(Common to CSE & CSIT)

Time: 3 Hours

Max. Marks: 60

PART-A

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

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|---|--|-----|----|----|
| 1 | a Name the functions of network layer. | CO1 | L1 | 2M |
| | b List the address fields of PPP. | CO2 | L1 | 2M |
| | c What is Dynamic routing algorithm? | CO3 | L2 | 2M |
| | d Explain crash recovery. | CO2 | L2 | 2M |
| | e Differentiate between FTP and HTTP. | CO5 | L4 | 2M |

PART-B

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

UNIT-I

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|---|--|-----|----|----|
| 2 | a Tell in detail about twisted pair cable working. | CO1 | L5 | 5M |
| | b Briefly explain about Coaxial cable. | CO1 | L2 | 5M |

OR

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| 3 | Explain in detail about TCP /IP Network model. | CO1 | L2 | 10M |
|---|--|-----|----|-----|

UNIT-II

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| 4 | Extend about the Elementary data link protocols. | CO2 | L2 | 10M |
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| 5 | Explain about CSMA/CA protocol. | CO2 | L2 | 10M |
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UNIT-III

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| 6 | a Calculate the Shortest Path Algorithm considering an example. | CO3 | L3 | 7M |
| | b Explain Flooding concept. | CO3 | L2 | 3M |

OR

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|---|--|-----|----|-----|
| 7 | Illustrate Link State Routing algorithm to find the route and ages of routers. | CO3 | L2 | 10M |
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UNIT-IV

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| 8 | Elaborate each field of TCP segment header with neat diagram. | CO4 | L5 | 10M |
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| 9 | a Analyze the use of real time transport protocol? | CO4 | L4 | 5M |
| | b Write in detail about performance issues of transport layer. | CO4 | L5 | 5M |

UNIT-V

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|----|---|-----|----|----|
| 10 | a List out the four main properties of HTTP. | CO5 | L1 | 2M |
| | b Illustrate in detail about function and structure of e-mail protocol. | CO5 | L3 | 8M |

OR

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|----|---------------------------------------|-----|----|----|
| 11 | a Name the basic functions of E-Mail. | CO5 | L1 | 3M |
| | b Write about TELNET. | CO5 | L5 | 7M |

*** END ***

