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

B.Tech III Year I Semester Regular Examinations Feb-2021
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 | Define computer network. | 2M |
| | b | What is the use of File Transfer Protocol? | 2M |
| | c | Give example byte stuffing. | 2M |
| | d | What is virtual circuit? | 2M |
| | e | What is the process of marshaling? | 2M |

PART-B

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

UNIT-I

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|---|---|--|----|
| 2 | a | Justify "Fiber optic cable is better than other guided media". | 5M |
| | b | Compare OSI and TCP/IP Network models. | 5M |

OR

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|---|---|--|----|
| 3 | a | Illustrate the architecture of Internet. | 5M |
| | b | Give the description of wireless transmission media. | 5M |

UNIT-II

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|---|---|---|----|
| 4 | a | Write about the services provided by the Data link layer. | 5M |
| | b | Discuss about GO BACK N Protocol. | 5M |

OR

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| 5 | a | Discuss bit-oriented HDLC Protocol with the elaborative explanation of its frames. | 5M |
| | b | Solve Cyclic Redundancy check method used for error detection. | 5M |

UNIT-III

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|---|---|--|----|
| 6 | a | Explain in detail about congestion control algorithms. | 5M |
| | b | Explain distance vector routing algorithm. | 5M |

OR

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| 7 | a | Sketch and explain in detail about IPV4 protocol. | 6M |
| | b | Briefly state what is count to infinity problem? | 4M |

UNIT-IV

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| 8 | a | Elaborate each field of TCP segment header with neat diagram. | 6M |
| | b | Write in detail about User Datagram Protocol (UDP). | 4M |

OR

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| 9 | a | Identify the problems occur during connection establishment. | 5M |
| | b | Analyze the use of real time transport protocol. | 5M |

UNIT-V

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|----|---|----------------------------------|----|
| 10 | a | Describe SMTP protocol. | 5M |
| | b | Explain about dynamic web pages. | 5M |

OR

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| 11 | a | Write about TELNET. | 5M |
| | b | Summarize in detail about cookies. | 5M |

END