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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**B.Tech III Year I Semester Supplementary Examinations August-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 throughput. | 2M |
| | b | List the address fields of PPP. | 2M |
| | c | State the process of optimality principal | 2M |
| | d | Explain crash recovery. | 2M |
| | e | Tell the responsibilities of application layer. | 2M |

PART-B

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

UNIT-I

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|---|---|---|----|
| 2 | a | Tell the responsibilities of application layer. | 5M |
| | b | Summarize various network types. | 5M |

OR

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|---|---|---------------------------------------|----|
| 3 | a | Briefly explain about Coaxial cable. | 5M |
| | b | Discover the design issues of layers. | 5M |

UNIT-II

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| 4 | a | Describe the process of U-Frame. | 5M |
| | b | Write about the services provided by the Data link layer. | 5M |

OR

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| 5 | a | Explain about CSMA/CA protocol. | 5M |
| | b | Relate and explain Pure ALOHA protocol in detail. | 5M |

UNIT-III

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| 6 | a | Discuss Token bucket algorithm with neat diagram. | 5M |
| | b | Sketch and explain in detail about IPV4 protocol. | 5M |

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| 7 | a | Elaborate Internet control protocols. | 6M |
| | b | Write about BGP – Exterior Gateway routing protocol. | 4M |

UNIT-IV

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|---|---|---|----|
| 8 | a | Describe about i) TCP connection Establishment. | 6M |
| | b | Describe about ii) TCP Connection Release. | 4M |

OR

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| 9 | a | Elaborate each field of UDP segment header with neat diagram. | 5M |
| | b | Write in detail about performance issues of transport layer. | 5M |

UNIT-V

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| 10 | a | Discuss the features of HTTP and explain how HTTP works. | 5M |
| | b | Describe SMTP protocol. | 5M |

OR

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| 11 | a | Discuss about File Transfer Protocol with neat diagram. | 5M |
| | b | Write in detail about DNS Name Space with example | 5M |

END