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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
 (AUTONOMOUS)  
**MCA II Year I Semester Supplementary Examinations August-2021**  
**COMPUTER NETWORKS**

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 a Write about TCP/IP reference model? 6M  
 b Describe the Sliding window protocols? 6M

**OR**

- 2 a Write Ethernet and Wireless LAN with example? 6M  
 b Explain collision free protocols with examples? 6M

**UNIT-II**

- 3 a What is Routing Algorithm? Describe the Shortest Path Routing Algorithm. 6M  
 b What is Congestion Control? Explain principles and Polices of congestion Control. 6M

**OR**

- 4 a Explain about the Broad Cast routing algorithm with example. 6M  
 b What is dynamic routing algorithm? And explain about Link state routing algorithm. 6M

**UNIT-III**

- 5 a Write about Tunneling and Fragmentation with examples. 6M  
 b Define the IP address? And explain subnet. 6M

**OR**

- 6 a Explain the Quality of service. 5M  
 b Explain ATM LANS. 7M

**UNIT-IV**

- 7 a Describe the releasing connection in transport layer. 6M  
 b What is flow control? And how it works? 6M

**OR**

- 8 a What is buffering and explain the working procedure? 6M  
 b Explain the Transaction Control Protocol. 6M

**UNIT-V**

- 9 a Explain the domain name hierarchy of DNS. 6M  
 b Explain about SMTP. 6M

**OR**

- 10 a Discuss about SNMP in Application Layer. 6M  
 b Define Cipher text, And explain about substitution ciphers. 6M

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