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

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QUESTION BANK (DESCRIPTIVE)

Subject with Code : COMPUTER NETWORKS (18MC9112)   **Course & Branch**: MCA

Year & Sem: II- MCA & I-Sem   **Regulation:** R18

UNIT –I

3. Write about OSI Reference model and functionality of that layers?

4. Explain Error detection and Corrections?

5. Write about TCP/IP reference model?

6. Describe the Sliding window protocols?

7. Write about broad band and Narrow band ISDN?

8. What is MAC layer? Explain about channel allocation methods?

9. Write Ethernet and Wireless LAN with example?

10. Describe the carries sense multiple access protocols?

11. Define the TDM, FDM? Explain the Elementary data link protocols?

12. Explain collision free protocols with examples?

UNIT –II

1. What is Routing Algorithm? Describe the Shortest Path Routing Algorithm?

2. Explain Link State Routing Algorithm with Example?

3. Types of Routing Algorithms? And Explain the Hierarchical Routing Algorithm?

4. What is Congestion Control? And Explain principals and Polices of congestion Control?

5. Write about flooding algorithm with examples?

6. Explain about the Broad Cast routing algorithm with example?

7. What is static routing algorithm? And write about Flow based routing algorithm?

8. Write about Choke packet and Load shedding?

9. Write any two static routing algorithms with examples?

10. What is dynamic routing algorithm? And explain about Link state routing algorithm?

UNIT –III

1. Write about Tunneling and Fragmentation with examples?
2. Explain the Network layer internet-IP   Protocols in ?
3. Define the IP address? And explain subnet?
4.Write about internet protocols?
5. Explain internet multicasting & mobile IP?
6. Define the terms OSPF and BGP?
7. Explain about ATM networks-cell formats?
8. Write about connection setup routing   & switching?
9. Define service categories?
10. a) Explain Quality service?
    b) Explain ATM LANS?

UNIT –IV

1. Explain the Elements of transport protocols?

    a. Addressing

    b. Establishing a connection

2. Describe the releasing connection of transport layer?

3. Describe about crash recovery in transport layer?

4. Explain two internet transport protocols?

5. What is transport protocol? Explain two elements of that?

6. What is flow control? And how it works?

7. What is buffering and explain the working procedure?

8. Explain the Transaction Control Protocol?

9. What is UDP? Explain in detail of that protocol?

10. What is Transport layer? And write the functionality of that layer?

UNIT –V

1. What is Application layer? And explain the functionality?

2. Explain the domain name hierarchy of DNS?

3. Discuss the traditional applications in application layer?

4. Explain about SMTP

5. Explain about MIME

6. Describe the world wide web-Http with examples?

7. Write about network management?

8. Discuss about SNMP in Application Layer?

9. Define Ciphers text? And explain about substitution ciphers?

10. Write about Transposition Ciphers with examples?

    a) What Symmetric algorithm and discuss in detail ?

    b) Discuss about Public key algorithm?