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**Question Paper Code: 31452**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Fifth Semester

Electronics and Communication Engineering

01UEC502 – DATA COMMUNICATION AND NETWORKS

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Compare datagram networks with virtual circuit subnets.
2. Distinguish between ADSL and SDSL.
3. What are virtual LANS?
4. Mention the advantage and disadvantage of stop and wait flow control.
5. Why IPV6 is preferred then IPV4?
6. Draw the general format of ICMP messages.
7. List the objectives of frame relay congestion.
8. How will the congestion be avoided?
9. What is the purpose of domain name system?
10. What are the advantages & disadvantages of public key encryption?

PART - B (5 x 16 = 80 Marks)

11. (a) Explain the TCP/IP reference model with a neat sketch. (16)

Or

(b) Discuss in detail about the various types of switching networks. (16)

12. (a) Explain in detail about the frame format and control field of HDLC. (16)

Or

(b) Write short note on architecture and layers of Frame relay and ATM. (16)

13. (a) Discuss about ARP and RARP. (16)

Or

(b) Explain the IPv4 addressing scheme in detail. (16)

14. (a) Explain the segment formats for TCP and UDP. (16)

Or

(b) Define QOS. Elaborate the characteristics of QOS. (16)

15. (a) Summarize on FTP and Domain Name System (DNS). (16)

Or

(b) Explain in detail about (i) E-mail (ii) DNS. (16)

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