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**Question Paper Code: 31542**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2016

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 circuit switching and packet switching.
2. Differentiate the guided and unguided transmission media.
3. List the different communication modes in HDLC.
4. State the responsibilities of data link layer.
5. What is the significance of DHCP?
6. Draw the general format of ICMP.
7. What is three-way hand shaking?
8. List the differences between connection oriented and connection less protocols.
9. Write short notes on DNS.
10. Why do we need POP3 and IMAP4 for Email?

PART - B (5 x 16 = 80 Marks)

11. (a) Discuss briefly about cable TV networks and cable TV for data transfer. (16)

Or

(b) Describe briefly the various layers and functions of OSI model and compare OSI model with TCP/IP model. (16)

12. (a) Discuss in detail about stop and wait ARQ, Go-Back-N ARQ and selective repeat ARQ. (16)

Or

(b) Describe IEEE802.11 standard in detail with necessary diagrams. (16)

13. (a) Draw IPV6 datagram format and discuss each term in detail. (16)

Or

(b) What are ARP and RARP? Describe ARP, RARP in detail. (16)

14. (a) Discuss about the congestion control technique used in transport layer. (16)

Or

(b) Explain about QoS and techniques to improve QoS. (16)

15. (a) Explain in detail about file transfer protocol. (16)

Or

(b) Define cryptography. Discuss in detail about symmetric key algorithms. (16)