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Question Paper Code: 35402

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

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. What are the functions of Physical Layers?
2. Distinguish between ADSL and SDSL.
3. Tell the mechanism of stop and wait flow control.
4. Mention the advantage and disadvantage of stop and wait flow control.
5. Compare IPV4 and IPV.
6. Draw the general format of ICMP messages.
7. List the objectives of frame relay congestion.
8. Compare UDP and TCP.
9. What is the purpose of domain name system?
10. Distinguish between symmetric encryption and public key encryption.

PART - B (5 x 16 = 80 Marks)

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

Or

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

12. (a) Explain in detail about IEEE 802.11 Bluetooth and its layers. (16)

Or

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

13. (a) Discuss about IGMP in detail. (16)

Or

(b) What are ARP and RARP? Describe ARP, RARP 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) Explain in detail about digital signal line. (16)

Or

(b) Explain briefly on the following network securities

(i) Digital signature (8)

(ii) Entity authentication. (8)