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Question Paper Code: 35402

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

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. Tell the mechanism of stop and wait flow control.
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. Define various types of data delivery.
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) Illustrate about the various layers in OSI model. (16)

Or

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

12. (a) Develop the architecture of Bluetooth and explain about the protocol stack of Bluetooth. (16)

Or

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

13. (a) Draw IPV6 datagram format and discuss each term in detail. (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) Define cryptography. Discuss in detail about symmetric key algorithms. (16)
