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Question Paper Code: 31452

B.E. / B.Tech. DEGREE EXAMINATION, NOV 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. What are the functions of physical layer?
2. Differentiate between guided media and unguided media.
3. Tell the mechanism of stop and wait flow control.
4. What are the functions of frame relay?
5. Compare IPV4 and IPV.
6. Define ICMP.
7. List the objectives of frame relay congestion.
8. Define various types of data delivery.
9. Show how HTTP and WWW are related to the internet.
10. Differentiate symmetric-key cryptography and asymmetric-key cryptography.

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

Or

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

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

Or

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

14. (a) Explain in detail about transmission control protocol. (16)

Or

(b) Compose about the techniques used to improve QOS. (16)

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

Or

(b) Explain in detail about digital signal line. (16)