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Question Paper Code: 31542

B.E. / B.Tech. DEGREE EXAMINATION, NOVEMBER 2015

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. Show how OSI and ISO are related to each other.

2. Differentiate between guided media and unguided media.

3. Tell the mechanism of stop and wait flow control.

4. List the applications of Bluetooth.

5. Compare IPV4 and IPV.

6. What is unicast routing?

7. List the objectives of frame relay congestion.

8. Compare UDP and TCP.

9. Show how HTTP and WWW are related to the internet.

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 about traditional cable TV networks. (16)

12. (a) Show the reason for switching over from stop and wait ARQ protocol to Go-Back-N ARQ protocol. (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) Summarize on OSPF & BGP. (16)

14. (a) Explain in detail how TCP uses congestion control. (16)

Or

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

15. (a) Summarize on HTTP and SNMP. (16)

Or

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

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