Reg. No. : ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Question Paper Code: 35042

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

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. 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. What is unicast routing?

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

15. (a) Explain in detail about digital signal line. (16)

Or

(b) Explain in detail about (i) E-mail (ii) DNS. (16)

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