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**Question Paper Code: 35402**

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

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. Why IPV6 is preferred then IPV4?
6. Draw the general format of ICMP messages.
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) Describe the various layers of OSI model with neat diagram. (16)

Or

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

12. (a) Discuss in detail:
- (i) Go-Back-N automatic repeat request (8)
  - (ii) Stop-and-Wait automatic repeat request. (8)
- Or
- (b) Write short note on architecture and layers of Frame relay and ATM. (16)
13. (a) Explain the IPv4 addressing scheme in detail. (16)
- Or
- (b) What are ARP and RARP? Describe ARP, RARP in detail. (16)
14. (a) Explain in detail the congestion mechanism and the various congestion control mechanisms. (16)
- Or
- (b) Define QOS. Elaborate the characteristics of QOS. (16)
15. (a) Summarize on FTP and Domain Name System (DNS). (16)
- Or
- (b) Explain briefly on the following network securities
- (i) Digital signature (8)
  - (ii) Entity authentication. (8)
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