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B.Tech. Degree VI Semester Examination April 2019

CS/IT 606 COMPUTER NETWORKS (2006 Scheme)

Time : 3 Hours

Maximum Marks : 100

PART A (Answer *ALL* questions)

(8 × 5 = 40)

- I. (a) What is a protocol? Explain a protocol stack with example.
 (b) Discuss on p2p file sharing.
 (c) Compare data gram and virtual circuits.
 (d) Describe UDP segment structure.
 (e) Discuss about error detection and error correction.
 (f) Write short note on V-LAN.
 (g) Describe different physical layer services.
 (h) Write notes on any two guided transmission media.



PART B

(4 × 15 = 60)

- II. With neat sketch explain OSI reference model in detail. (15)
OR
- III. (a) Explain the various types of network. (10)
 (b) Explain HTTP and FTP. (5)
- IV. (a) Illustrate TCP segment structure with neat diagram. (7)
 (b) Explain TCP connection establishment and termination. (8)
OR
- V. (a) Explain IP segment structure in detail. Use necessary diagrams. (8)
 (b) Explain how TCP connection management is implemented. (7)
- VI. (a) Explain CSMA/CD protocol with a diagram and describe the role of exponential back off algorithm? (8)
 (b) Discuss and differentiate functions of hubs, bridges and switches. (7)
OR
- VII. Explain HDLC protocol in detail. (15)
- VIII. What is ISDN? Explain ISDN. Compare with B-ISDN. (15)
OR
- IX. Write short notes on:
 (a) FDDI (5)
 (b) Socket Programming (5)
 (c) Fast Ethernet and Gigabit Ethernet. (5)