

C 32075

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SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, JUNE 2007

Information Technology

IT/CS 2K 604—COMPUTER NETWORKS

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

1. (a) Define Ethernet.
(b) Explain the basic hardware elements present in Wired LANs.
(c) Compare packet switching and circuit switching.
(d) Explain the various issues related to internetworking.
(e) What are NSAP and NPA addresses ?
(f) How TCP is better than UDP ?
(g) Compare symmetric and asymmetric algorithms used for encryption.
(h) What are FTP and Telnet ?

(8 × 5 = 40 marks)

(8 marks)

2. (a) (i) Compare Wired LANs with Wireless LANs.

(ii) Write note on : IEEE 802-12

Bridges.

(7 marks)

Or

- (b) (i) Discuss various transmission media elements used in LAN.

(8 marks)

(ii) Write note on :

FDDI.

(7 marks)

3. (a) (i) Explain how WANs are different from LANs in detail.

(8 marks)

(ii) Write note on ISDN.

(7 marks)

Or

- (b) (i) Describe the internetwork architecture in detail.

(8 marks)

(ii) Explain the various attributes associated with IPV6.

(7 marks)

4. (a) (i) Discuss various layers of TCP in detail.

(8 marks)

(ii) Explain service definition in detail.

(7 marks)

Or

Turn over

- (b) (i) Discuss how connection establishment and connection release are done in TCP. (8 marks)
- (ii) Differentiate flow control and congestion control. (7 marks)
5. (a) (i) Explain how session layer provides services to other layers. (8 marks)
- (ii) Discuss concurrency related to networking. (7 marks)

Or

- (b) (i) Write note on cryptography. (8 marks)
- (ii) Explain : Email.
SMTP
MIME.

(7 marks)

[4 × 15 = 60 marks]