C 47545

Name.....

Reg. No.....

SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION, JUNE 2008

IT/CS 2K 604—COMPUTER NETWORKS

Time : Three Hours Maximum : 100 Marks

Answer **all** *questions.*

1. (a) Describe the features of Fast Ethernet.
   (b) Highlight the working principle of FDDI.
   (c) Compare bridges, routers and gateways.
   (d) Explain the features of private networks.
   (e) How TCP is better than UDP ?
   (f) What is "connection establishment" in transport layer ?
   (g) List down the major features of session layer.
   (h) Write a short note on TELNET.

(8 × 5 = 40 marks)

2. (a) Write in detail the various layers of OSI reference model. (15 marks)

Or

   (b) Explain token ring in detail. (7 marks)
   (c) Describe any *three* important medium access control methods used in wireless LANS. (8 marks)

3. (a) What are the services provided by broadband ISDN ? Explain. (7 marks)
   (b) Explain how WANS are different from LANS in detail. (8 marks)

Or

   (c) Explain the various attributes associated with IPV_6. (7 marks)
   (d) Discuss the evolution of ISDN. (8 marks)

4. (a) Explain service definition in detail. (7 marks)
   (b) Compare user datagram protocol with transmission control protocol. (8 marks)

Or

   (c) Discuss the congestion control in TCP. (8 marks)
   (d) Explain how connection establishment and connection release are done in TCP. (7 marks)

5. (a) Discuss how session layer provides services to other layers. (7 marks)
   (b) Write short note on message authentication. (8 marks)

Or

   (c) Explain firewalls in detail. 7 marks)
   (b) What do you mean by data encryption ? Explain any data encryption method. (8 marks)

[4 × 15 = 60 marks]