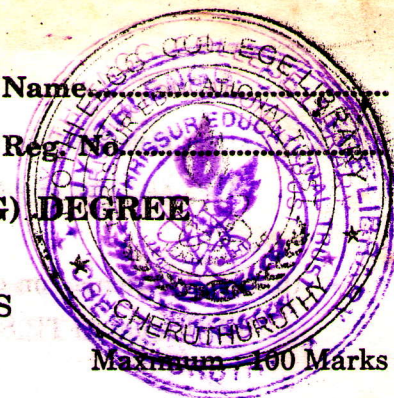


**SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE**  
**EXAMINATION, JUNE 2006**

**IT/CS 2K 604—COMPUTER NETWORKS**



**Time : Three Hours**

*Answer all questions.*

1. (a) What is token ring? Explain.  
(b) Compare bridges, switches and routers.  
(c) List down the issues related to internet working.  
(d) Explain various classes of IP addresses.  
(e) Why TCP is a better protocol?  
(f) Explain congestion control.  
(g) Highlight the features of e mail facility.  
(h) What is digital signature? Explain.  

(8 × 5 = 40 marks)
2. (a) (i) Discuss various layers of OSI reference model in detail. (8 marks)  
(ii) What are wireless LANs? Explain. (7 marks)  

Or

- (b) (i) Describe various types of ethernet in detail. (8 marks)  
(ii) Write note on FDDI. (7 marks)
3. (a) (i) Explain the architecture and principles of private networks. (8 marks)  
(ii) Write in detail about IPV6. (7 marks)  

Or

- (b) (i) Compare various switching techniques in detail. (8 marks)  
(ii) What is internet working? Discuss in terms of components and principles used. (7 marks)
4. (a) (i) What are the major services provided by transport layer? Explain. (8 marks)  
(ii) Write note on VDP. (7 marks)  

Or

- (b) (i) Explain TCP user services with time sequence diagram. (8 marks)  
(ii) Discuss service parameters and layer interactions. (7 marks)

**Turn over**



5. (a) (i) Describe the services of session layer. (8 marks)  
 (ii) Explain any *one* presentation protocol in detail. (7 marks)

Or

- (b) (i) Write note on cryptic algorithms. (8 marks)  
 (ii) Explain FTP, SMTP, Telnet and POP. (7 marks)

[4 × 15 = 60 marks]