

(Library)

## Computer networks

Con-2645-07.

ND-8309

(REVISED COURSE)

(3 Hours)

[Total Marks : 100

(N.B. : Attempt any five questions)

1. (a) Explain circuit switching, packet switching and message switching with suitable example. 10  
 (b) Explain sub-netting. 10
2. (a) Explain how TCP controls congestion. 10  
 (b) Explain ATM adaption layer. Also describe the VPZ and VCZ concept. 10
3. (a) State different physical media properties. Explain any one in detail. 10  
 (b) List blue tooth feature and explain network formation process. 10
4. (a) Give the functions of repeater, hub, bridge, switch, router, gateway. 10  
 (b) Explain RSA Algorithm with suitable example of public key security. 10
5. (a) Explain the need of layered Architecture of computer network. Also explain data transmission and protocols in layered Architecture. 10  
 (b) Discuss various services offered by transport layer. 10
6. (a) Explain DNS system. 10  
 (b) Explain SMTP. 10
7. (a) What are different types of routing Algorithms ? Explain any one in detail. 10  
 (b) Explain stop and wait and sliding window protocols with suitable example. 10