

10 APR 2019

Seat No: \_\_\_\_\_

**BSc.IT Semester-4 Examination**  
**March/April-2019**  
**405-Computer Network**  
**Subject Code: 20993**

**Time: 2 Hours 30 Minutes**

**Total Marks: 70**

- Q-1 [a] Write a detailed note on unguided media. [07]  
Q-1[b] Differentiate: analog & digital data. [07]  
OR  
Q-1 [a] Explain co-axial & fiber optic cable with its merits & demerits. [07]  
Q-1[b] Differentiate: guided & unguided media. [07]  
Q-2 [a] Write a detailed note on satellite link & communication. [07]  
Q-2[b] Explain Propagation in Fiber. [07]  
OR  
Q-2 [a] Discuss basics of routing. [07]  
Q-2[b] Write a detailed note on FDDI with its merits & demerits. [07]  
Q-3 [a] Explain multiplexing with all its types. [07]  
Q-3[b] Explain the concept of PABX [07]  
OR  
Q-3 [a] Explain the concept of FAX [07]  
Q-3[b] Explain switching techniques. [07]  
Q-4 [a] Compare LAN, MAN & WAN [07]  
Q-4[b] Define topology. Explain any 2 topologies in detail. [07]  
OR  
Q-4 [a] Explain the concept of Bluetooth. [07]  
Q-4[b] Write a detailed note on IEEE Standards 802 For LAN and MAN [07]  
Q-5 [a] Explain ATM protocol. [07]  
Q-5[b] Define the terms: [07]  
Bridge, firewall, modem, hub, switch, gateway, protocol  
OR  
Q-5 [a] Explain X.25 protocol. [07]  
Q-5[b] Differentiate: [07]  
1) Router vs. Brouter  
2) Bridge vs. Gateway