

TF - sem - VI - old - computers

ACN

8/12/15

QP Code : 2010

100 marks

3 hrs.

NB :

1. Question 1 is compulsory
2. Attempt any 4 questions out of the remaining questions.

Q1.

- a) Explain Transmission hierarchy of media. (05)
- b) Compare FR, ATM and private lines by considering the WAN services. (05)
- c) Explain Backbone design issues of Network (10)

Q2.

- a) Compare and contrast RIP and OSPF. (10)
- b) Why traditional routing algorithms cannot be used for Multicasting. (10)
Explain one multicast protocol(MOSPF/DVMRP)

Q3.

- a) Explain Queuing model and its uses for traffic engineering. Explain M/M/1 queuing model in detail. (10)
- b) Explain the working of MPLS Networks. (10)

Q4.

- a) Explain SONET SDH Structure in detail (10)
- b) What are the various Time Delay consideration taken into account while doing engineering for a traffic network . (10)

Q5.

- a) Explain AAL layer and its various classes for ATM. (10)
- b) What are the various tools available for network management explain SNMP protocol(10)

Q6.

- a) Explain X.25 and X.75 in detail. (10)
- b) Write a connection less (UDP) socket program for client server communication. (10)

Q7. Short Notes on any (4)

(20)

- a) Quality of Service in IP
- b) Network Address Translation
- c) Enterprise Network security
- d) NMAP
- e) Class base and Classless Addressing scheme in IPV4.
- f) SMDS

QP-Con. 10304-15.