

Advanced Computer Networks

End Semester Exam

Monsoon 2019

Max Marks: 30

Duration: 3 Hours

Note: It is a closed book exam. All the three questions carry equal marks.

10 1. You have done design exercise for LAN and WAN, and have gone through the oral evaluation. You might have explored new devices, architectural ideas, protocols, etc during these design exercises. List out things you learned and describe-discuss any two of them in detail. Also, during/after oral evaluation, you might have realised mistakes or deficiencies in your design. Discuss those mistakes/deficiencies, and suggest improvement in the design you submitted on Moodle. *But link flipping*

10 2. Flow management, congestion management is an important aspect of network protocols. You have learned various protocols at different network layers during this course and earlier (e.g. ~~IP~~, ~~TCP~~, X.25, FR, MPLS, Ethernet, ~~PIM~~, and many more). Do a comparative analysis of flow and congestion management provisions in these protocols.

3. Write brief notes on the following:

2 a. Reverse Path Forwarding

2 b. IPv6 Anycast

2 c. Load Balancing

2 d. Network Management *ASN-1 MIB, Trap.*

2 e. WiFi (IEEE 802.11x) *MPLS-2.5 protocol*

wireless
RTS *CTS.*