Advanced Computer Networks
End Semester Exam
19/11/2018

Max Marks: 100   **Duration:** 3 Hour

Instructions:
- It is an open book, open Laptop exam.
- All questions carry equal marks.
- It is best to spend about 30 minutes each on first 4 question and about 60 minutes on 5th question.

1. What are the shortcomings/limitations of IPv4? How does IPv6 address those limitations/issues? What are additional features offered by IPv6?

2. During the course, you were asked to observe network traffic under various conditions/network usage scenario with the help of Wireshark (or any other tool). Share your observations, understanding and conclusions drawn.

3. What are issues/aspects that need to be addressed while designing a routing protocol? What are various performance criteria for routing protocols? Discuss them.

4. You were asked to read various RFCs during course. Which RFC(s) did you read thoroughly? Summarise your understanding of one of them.

5. Write brief notes on any 4 of the following:

   a. BER

   b. IP Multicast Routing

   c. TCP Spoofing in VSATs

   d. Wireless LAN

   e. Mobile Phone Network

   f. Load Balancing