CPSC 460/560 Final Review

1. **Topics to cover in the final exam**
   - Protocol & Protocol Layers, E.g., How a message go through protocol layers at the sender, receiver and routers?
   - Internet structure and services
   - HTTP, Web caching (Web proxy and CDN)
   - DNS
   - BitTorrent
   - Network delay, bandwidth X delay product
   - TCP & UDP
   - Reliable transfer protocols (Stop and Wait Protocol) & Sliding Window protocols (Selective Repeat & Go-Back-N)
   - TCP details: segment, sequence number, flow control, congestion control, connection setup & shutdown
   - DCTCP
   - IP addressing (CIDR), IP routing (OSPF, RIP, BGP-4), IP fragmentation & ICMP
   - Routers and Switches
   - Link layers: frame, CSMA/CD, MAC, Switching
   - Packet sniffing
   - Datacenter Networks

2. **Question Type**
   - Short answers: expect correct & concise answers (Do not provide long irrelevant answers!)
   - Simple calculation (you can bring your calculator though I do not think it necessary)
   - Multiple choices
   - Some questions need your deep understanding of concepts
     - E.g.: explain how messages are routed in Internet?
       - From AS perspectives?
       - From protocol layer perspectives?...