

## Computer Networks - PartB

25<sup>th</sup> March 2015

Max Marks: 100

Duration: 60Min

1. Describe sequence of network events that take place when you use an Internet browser to access a public website outside your own network. Start from the point when you enter URL in your browser till you receive the requested webpage. Point out the protocols used at each stage. (15 minutes) (20)
2. What do you understand by fragmentation in IP networks? Why is it needed? How and when is defragmentation done? What does one do if he does not want packets to be fragmented? (15 minutes) (20)
3. Explain flow control techniques used by TCP. How does it avoid congestion in the network? What are the likely problems faced if we use TCP over high delay networks? (15 minutes) (20)
4. Explain the functioning of L3 Switch. How is it different from L2 switch and Router? You may possibly touch upon the terms such as wire speed performance, cut through switching/routing, memory/buffer allocation, switching delays, etc. (15 minutes) (40)