I226 Computer Networks

Chapter 10 Traffic and Communication Engineering

(Review Questions)

Each chapter includes a few questions that are designed to help you to revise your first-level understanding of the slide material presented in the lecture.

1. What are the traffic engineering and traffic theory for?
2. Give a basic model of queuing theory and explain the parameters to specify the nature of that model.
3. What are the traffic intensity and blocking probability? What are their units?
4. What does Erlang B equation give? The value of the equation is used as a table. Explain how to use the Erlang B table.
5. What is the M/M/1 queuing model? Give an average waiting time and average service time.
6. Explain the meaning of the availability. Give its definition.
7. When the availability of a system is *a* and two such systems are concatenated in series, give the total availability of the system. How it would be when connected in parallel?
8. Give the definition of FIT (Failure in Time). How this value is used?