Immunology – Exam 3 Study Guide

* Review all chapters and powerpoints
* Review T cell activation; B cell activation
* What are cytokines? What are 3 problems that can arise by using cytokines as therapy?
* What are the steps of leukocyte extravasation?
* What are chemokines?
* What are high endothelial venules? Where do you find them?
* What is a granuloma?
* What are the 4 signs of inflammation?
* What are the 4 types of cell adhesion molecules?
* Do lymphocytes tend to “home” and migrate where they first encountered antigen?
* What is a mixed lymphocyte reaction?
* What are the 4 categories of hypersensitivity reactions? What is the mechanism of action for each? What are examples?
* What are thymus dependent antigens? Thymus-independent antigens?
* What are the 3 main events that happen to B cells in germinal centers?
* What are superantigens?
* What is chronic inflammation? What are the causes of chronic inflammation?
* Can unprocessed antigen also make its way to lymph node B cells?
* What is perforin? What are CTLs? How do they kill cells?
* How do natural killer cells recognize infected cells?