

Immunology Class Preparation

1. Label each example as either active or passive immunity:
 - a. Antibodies are passed from the mother to the fetus:
_____passive_____
 - b. Antibodies are produced after exposure to a killed virus:
_____active_____
 - c. Antibodies are produced after an infection:
_____active_____
 - d. Antibodies are administered in the form of immune globulins:
_____passive_____

2. A nurse is assessing a client for HIV. The nurse should identify which of the following risk factors associated with this virus? Select all that apply.
 - a. Perinatal exposure
 - b. Monogamous partner
 - c. Blood transfusion
 - d. Occupational exposure

3. A nurse in an outpatient clinic is assessing a client who reports night sweats, fatigue, cough, nausea, diarrhea and has a temperature of 38.1° C (100.6° F). The client is concerned about the possibility of having HIV. Which actions should the nurse take? Select all that apply.
 - a. Perform a physical assessment
 - b. Determine when the manifestations began
 - c. Request a prescription for an antibiotic
 - d. Request a prescription for HIV testing
 - e. Obtain a sexual history

4. List three effects of aging on the immune system:
 - a. _____decreased production of T and B cells/weaker adaptive immune response_____
 - b. _____reduced effectiveness of T and B cells/ slower or diminished antibody response_____
 - c. _____increased susceptibility to infections and autoimmune disease/ due to immune dysregulation_____

5. Match the type of hypersensitivity reaction to the characteristics:

Type I: IgE-Mediated __A__	A. Caused by pollen, food, drugs, dust, immediate reaction, allergic rhinitis, atopic dermatitis, skin test shows wheal and flare
Type II: Cytotoxic __C__	B. Occurs when T cells attack antigens or release cytokines, several days to occur, contact dermatitis
Type III: Immune- Complex __D__	C. Caused by ABO incompatibility blood transfusion reaction, occurs in minutes to hours, activates
	D. Caused by fungal, viral, or bacterial antigens,

Type IV: Delayed Hypersensitivity __B__

takes hours to days to develop, rheumatoid arthritis, systemic lupus erythemata complement system and leads to cell lysis and acute kidney injury