

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 primary and secondary response
 - b. Thymic shrinkage
 - c. Decreased cell-mediated immunity
5. **Match the type of hypersensitivity reaction to the characteristics:**

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| 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 |
| Type IV: Delayed Hypersensitivity: B | D. Caused by fungal, viral, or bacterial antigens, takes hours to days to develop, rheumatoid arthritis, systemic lupus erythemata complement system and leads to cell lysis and acute kidney injury |