

**CHAPTER 8****HANDOUT****Immune Response Specific****BLM 8.3.4**

The specific defence system is primarily a function of the B and T lymphocytes (white blood cells in the circulatory system). These cells produce antibodies—proteins that can recognize foreign substances in the body and neutralize or destroy them. B lymphocytes (B cells) are made in the bone marrow, while T lymphocytes (T cells) are made in the thymus gland.

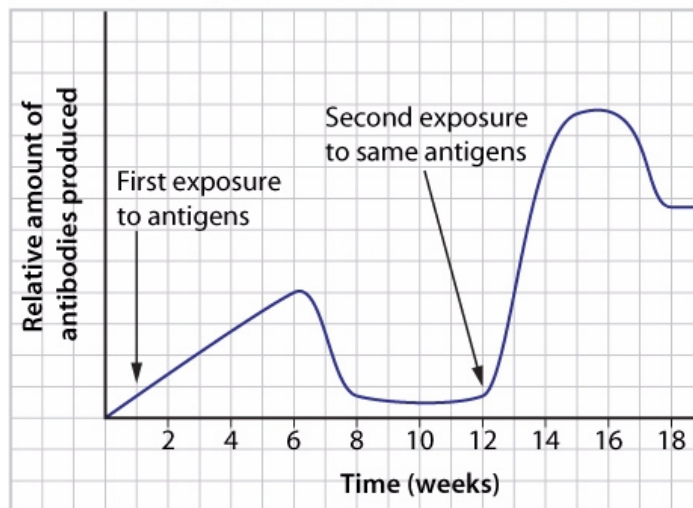
1. Define the term “antigen” in terms of pathogens.

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*Use the graph below to answer the next three questions.*



2. Explain what is happening in the graph.

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3. Compare how long the body took to produce antibodies after the first exposure to how long it took after the second exposure.

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4. Compare the quantity of antibodies from the first exposure to the second exposure.

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5. Create a flow chart that illustrates the B cell response to pathogens.

6. Fill in the chart below, describing the function of each of the T cells in cellular-mediated immunity.

<b>T Cell Type</b>	<b>Function</b>
Helper T Cell	
Killer (Cytotoxic) T Cell	
Suppressor T Cell	
Memory T Cell	