The Immune System - Assessment

1. What best describes the role histamines play in the nonspecific defense of the immune system? (mark all that apply)
   A. increased rigidity of blood vessels to stop the spread of foreign infection agents
   B. increased permeability of blood vessels to allow immune response cells and proteins to flow to the site of infection
   C. to dilate the blood vessels
   D. to contract the blood vessels

2. Match the immune-system cells with their function:

<table>
<thead>
<tr>
<th>Immune Cell</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Phagocytes</td>
<td>I. antigen-presenting cells</td>
</tr>
<tr>
<td>B. Mast cells</td>
<td>II. contain receptors for antibodies and later can change into a new cell type that creates antibodies</td>
</tr>
<tr>
<td>C. Dendritic cells</td>
<td>III. produce interleukins, kill infected cells, or stop healthy cells from being killed by the immune response</td>
</tr>
<tr>
<td>D. B cell Lymphocytes</td>
<td>IV. ingest other cells; some can become antigen-presenting cells</td>
</tr>
<tr>
<td>E. T cell Lymphocytes</td>
<td>V. release large amounts of histamines</td>
</tr>
</tbody>
</table>

3. Which of the following cell type(s) is(are) involved in antibody-mediated immunity? (select all that apply)
   A. B cells
   B. Dendritic cells
   C. T cells
   D. Mast cells
   E. Macrophages
   F. Eosinophils
   G. Neutrophils

4. Some people are allergic to peanuts. This is most likely due to:
   A. the fact that plant cells are so different from human cells
   B. the fact that peanuts are not a normal part of the human diet
   C. lipids on the surface of the peanut's cell
   D. proteins on the surface of the peanut's cell
   E. carbohydrates on the surface of the peanut's cell

5. Urinary Tract Infections (UTIs) are generally rare because:
   A. urine is acidic
   B. urine contains many white blood cells
   C. urine contains antibodies
D. urine contains protective lysozymes
E. urine contains good symbiotic bacteria that phagocytize invasive bacteria

Answer Key:
1. B, C
2. A, IV; B, V; C, I; D, II; E, III
3. A, B, E
4. D
5. A