

*Key*

## IMMUNITY

1. How does our body protect us from various diseases?

*Through the Immune system i.e. (Innate and Acquired).*

2. List the various routes through which pathogenic organisms can invade our bodies. Correlate these routes with the protective mechanisms of our bodies.

<u>ROUTE</u>	<u>PROTECTIVE MECHANISM</u>
<i>Skin</i>	<i>Phagocytosis by the tissue Macrophages</i>
<i>Oral</i>	<i>Lymphoid tissue of the tonsils and the Intestines and the HCl.</i>
<i>Nasal / Respiratory System</i>	<i>Alveolar macrophages.</i>
<i>Blood</i>	<i>"T" and "B" Lymphocytes and the WBCs.</i>

3. Name the cells involved in <sup>*Specific*</sup> immunity.

*"T" and "B" lymphocytes*

4. What mechanisms are present through which the immune cells work?

*"T" cells ----- Activated "T" cells*

*"B" cells ----- Antibodies.*



5. **Define and differentiate between Innate and Acquired immunity.**

<u>INNATE IMMUNITY</u>	<u>ACQUIRED IMMUNITY</u>
<i>Immunity that is present at birth.</i>	<i>Immunity that is produced after birth.</i>
<i>No need of previous exposure</i>	<i>Previous exposure is needed</i>
<b><i>Mode of action:</i></b>	<b><i>Mode of action:</i></b>
<ul style="list-style-type: none"> <li><i>i. Phagocytes.</i></li> <li><i>ii. HCl.</i></li> <li><i>iii. Resistance through the skin.</i></li> <li><i>iv. Neutralization by chemicals.</i></li> </ul>	<i>Through antibodies and Activated "T" cells.</i>

6. **What are antigens?**

*These are foreign proteins or polysaccharides particles with a mol. Wt. Greater than 8000.*

7. **What are antibodies?**

*These are Gamma globulins produced by the "B" lymphocytes. They are of 5 types. (IgA, D, E, G and M).*

8. **What is cell mediated and humeral immunity?**

*Immunity conferred through activated "T" cells is called Cell mediated and immunity conferred through Antibodies or "B" cells is called Humeral immunity.*

9. **What is immunization?**

*A process of imparting Acquired immunity.*

10. **What is the role of immunity in AIDS?**

*The HIV virus destroys the Helper "T" cells making the body susceptible to otherwise minor infections.*