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Questions

1. Explain the role of the immune system
2. Describe the two types of immunity
3. Explain the different types of immunity

Answers

The role of the immune system helps to protect the body from infections by identifying and destroying harmful microorganisms. It helps to protect the body against disease in other potentially damaging foreign bodies or infectious germs. It helps to build immunity so that we can encounter certain invading germs against body so the body can fight them when they invade again.

* Active Immunity: This can be defined as a long lasting immunity which results from production of antibodies by the immune system in response to the presence of an antigen, it is the immunity that develops after exposure to a disease causing infection organism or other foreign substance.
* Passive Immunity: This is defined as a short term immunity which results from the introduction of antibodies from another person or animal e.g it is the transfer of active humoral immunity of ready-made antibodies. The person gain resistance to a disease without having to actively do anything to gain resistance.

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| Types | Description | Roles |
| IgG  IgM | Major type of antibody found in blood and extracellular fluid , it is divided four subclasses.  Largest antigen binding body majorly attached to the surface of B cells | Protect the body from infection  Control of B cell activation and plays a significant role fighting infection |
| IgA | Expressed in mucosal tissue, found in tears, breastmilk, saliva, etc | Acts as important first line of defense and protect against pathogen |
| IgD | Parts of the B cell receptor activates basophils and most cells | Signals B cells to be activated and by being activated, B cells are ready take part in defense |
| IgE | Has only being found bin mammals. It is synthesized by the plasma cells, also involved bin allergy. | Protect against parasitic worms and responsible for allergic reactions. |