

Class-VII

Subject: Biology

Chapter-7

Allergy

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Good Morning Children! This lesson is for Class VII, Subject - Biology, Chapter-7, Allergy, of your textbook Concise Biology. Today, we are going to discuss about the concept of allergy and entry routes of allergies. This lesson is being submitted to you on 16.12.2024

Concept of Allergy:

"Allergy" was introduced in 1906 by Clemens Von Pirquet. "Allergies" are caused by hypersensitivity of the immune system to something in the environment. For example, hay fever, asthma etc.

Allergens: The substances that causes allergies are called as allergens. Common allergens are: dust, pollen grains, mites etc.

The allergens bind to basophils (WBC) and histamine is released. The histamine causes an allergic reaction and symptoms like inflammation and skin rash will appear.

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Entry Routes of Allergies.

- 1) Skin: Substances that come in contact with the skin such as latex, clothes etc cause allergic reactions.
- 2) Mouth: A wide variety of foods cause allergic reactions, but 90% of allergic responses to foods are caused by cow's milk, soya, eggs, fish and shellfish.
- 3) Nose: Pollen, spores and dust particles find entry through the nose. This can trigger coughing and sneezing.

Signs and symptoms of allergies:-
Dust and pollen are air borne allergens. Their general symptoms are irritation of nose, sneezing, coughing and watery eyes.

Allergic reactions can result from food, insect bites and medicines. Symptoms of food allergy are vomiting, diarrhoea and bloating. Some medicines

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can cause an allergic response (anaphylaxis). Multiple organ systems may be affected. Anaphylaxis can cause rashes or inflammation of the skin.

I am ending today's topic.
Kindly read today's topic from your textbook.
Thank you!