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STEPPING STONE SCHOOL (HIGH)

CLASS :7

Subject: BIOLOGY **Date: 15 /06/2020**

Topic: Ch 7(Health and Hygiene) Allergy

Time Limit: 40 Mins

Worksheet No. 10

Instruction: - Please go through the video link given below for better learning of the chapter.

https://drive.google.com/file/d/1YQAq1vi3uVbSG3GH2A-SlsGCrTh_KU_V/view?usp=sharing

Children in our last class we have discussed about allergy, allergens and the steps of allergic reactions. So, today our learning objective will be

- *What causes allergy?*
- *Some common allergic reactions such as hives, hay fever and asthma*
- *Anaphylaxis/ Anaphylactic shock*

1. Allergy is caused due to entry of allergens into the body

Routes of entry of allergens:-

- Windpipe:- dust, mites, pollen, spores
- Food pipe:- Eggs, milk, shelled fish, nuts and some pulses
- Skin:- insect bite, chemicals, strong sunlight

2.Upon entry of allergen the body produces a large amount of antibody . These antibodies are protein molecules called **Immunoglobulin E** or (IgE).

Each IgE is reaction specific i.e. IgE reacting against certain type of pollen may not be

Reactive against another type.

3. Allergy may be mild or severe depending upon the type and amount of allergen the body encounters.

Some common allergic reactions

- **Hives:-** This is a type of skin rash triggered by food, medication and stress.
- **Hay fever:-** This is a type of allergic response causing itchy, watery eyes , sneezing and other similar symptoms.
- **Asthma:-** This a condition in which the respiratory tract becomes inflammed, swell up ,narrow and produce extra mucous which causes breathing difficulty,

Anaphylaxis/Anaphylactic shock:- It is a serious , life threatening allergic reaction.

- **Causes:-** It can be caused by certain food, insect venom, drug or a chemical
- **Symptoms:**-1. Itching and hives all over the body

  2. soreness of throat

  3.sudden drop in blood pressure

  4. nausea, vomiting or diarrohoea

  5. Abnormal heart rate

- **Remedy:-** Carrying an emergency anaphylaxis kit that contains an injectable epinephrine (a drug which stimulates the adrenal glands to increase the heart beat)

[Copy the questions and solve them on a sheet of paper datewise. Keep them ready in a file to be submitted on the opening day]Go through the notes given above before you attempt to answer the questions.

Q1) Give one word answer:-

1. A substance that causes allergy in an individual------
2. A body protein used for the defence against germs.----
3. A symptom results from the interaction between allergen and antibody.-----
4. A kit that is carried by the people suffering from anaphylaxis.-----
5. A severe life threatening allergic reaction in which breathing difficulty can occur.------

Q2) Answer the following questions:-

1. Name five most common allergens.
2. What is anaphylaxis?
3. What are the most common symptoms of anaphylaxis?
4. What should be done if someone experiences anaphylactic shock?
5. Explain the role of IgE antibody in an allergic reaction .