



STEPPING STONE
SCHOOL (HIGH)

CLASS :7

Subject: Biology

Topic: Answers to worksheets no. 13,14, and 15

Dated 29/06/2020, 1/07/2020 , 3/07/2020

Answers to Worksheet No. :13

Date : 29/06/2020

Q1) State if the following are 'True' or 'False'. Correct the false statement.

1. True
2. True
3. False. Perennial allergy may occur at any time of the year while seasonal allergy is caused during certain seasons.
4. False. Antihistamines are the basic medication provided for allergies.
5. False. Wheat allergy is the most prevalent allergy of present time.
6. True
7. True

Q2) Match the following:-

1. Allergic reaction----- skin rashes
2. Food allergy ----- Perennial allergy
3. Cigarette smoking----- An airborne allergen
4. Allergy ----- A body reaction
5. Wheat allergy ----- Gluten

Q3) Give reasons:-

1. Allergies develop when our immune system mistakenly identifies a substance such as pollen, animal dander, or food as harmful. These substances or allergens stimulate the immune system to release certain chemicals such as histamine which then lead to allergic symptoms.
2. A person who is allergic to wheat may not be allergic to dust because the IgE produced as a result of entry of allergen into the body are reaction specific. When a susceptible

person is exposed to an allergen , the body starts producing huge quantity of similar IgE antibodies. So that the next exposure to the same allergen will produce allergic reaction.

3. Allergy is on the rise in the present time because the leading theory behind this is that the living conditions in many parts of towns and cities might be so clean that the children are not being exposed to germs that train their immune systems. Thus the body cannot defend itself against particular microorganisms or particles which lead to allergic reactions.
4. Children who are brought up in farms are mostly resistant to allergies because they grow up in a natural environment and thus their early childhood exposure to particular allergens protects against allergic disease by contributing to the development of the immune system.

Answers to Worksheet No. :14

Date:1/07/2020

Q1) Give one word for the following:-

1. Adipose tissue
2. Neuron
3. Smooth muscles
4. Meristematic tissue
5. Lignin
6. Sarcolemma
7. Lymph
8. Anaphylaxis
9. Epinephrine
10. Histology

Q2) Answer the following questions:-

1. Some examples of sclerenchyma fibres are, jute, cotton and hemp
2. **Photosynthetic parenchyma:-** It is a parenchyma tissue that has cells with many chloroplasts and a high photosynthesis rate. It is mainly found in leaves.
Storage parenchyma:- These are parenchyma tissue specialised in the storage of water and starch(as in cactus) and air (as in aquatic plant)
3. **Lymph** is a clear, straw coloured, watery fluid that surrounds the body cells. It picks up fats, bacteria and other unwanted materials from the blood , filtering out these substances and defends the body against germs.
4. The different types of meristematic tissues are:
 - **Apical meristem:-** It brings about elongation of stem and roots

- **Lateral meristem**:- It helps to increase the diameter of the plant organs.
- **Intercalary meristem**:- It's main function is to produce an increase in length of the plant.

5. Write the differences between the following:

Food allergy	Food intolerance
1.It is an exaggerated immune response to a food protein.	1. It is an aversive reaction to a food that does not involve the immune system.
2.Reaction can be immediate.	2.Reaction can be immediate or delayed up to 20 hours after the food is eaten.

Parenchyma Tissue	Collenchyma Tissue
1.It is made up of thin-walled living cells.	1. It is made up of thick-walled living cells
2.Helps in storage as well as manufacture of food.	2. Helps to provide mechanical strength and support to growing parts of the plant.

6. Two symptoms of common allergic reaction are:-
- Skin rashes:- Dermatitis or eczema, strong allergic reaction of the skin.
 - Hives:- These are the allergic reactions marked by the red, raised areas on the skin.
7. 1. Dendrites
2. cytoplasm
3. Axon
4. Nerve endings

Answers to Worksheet No:15

Date:3/07/2020

Q1) Give one word answer:-

1. Secretory tissue
2. Cutin
3. Cellulose
4. Xylem parenchyma
5. Histopathology
6. Sarcoplasm
7. Dendrons
8. Adipose tissue

9. Allergic rhinitis
10. Gluten

Q2) Answer the following questions:-

1. The two functions of areolar tissue are:-
 - It supports and builds a wide variety of body structures.
 - It binds the skin with muscles , attaches blood vessels to the surrounding tissues.
2. The matrix of connective tissue contains the following three types of protein fibres.
 - White fibres of collagen.
 - Yellow fibres of elastin
 - Reticular fibres of reticulin
3. The largest bone in human body is **femur** or **thigh bone** and the smallest bone in human body is **stapes** present in the middle ear.

4. Identify the figure.

- a) This is a longitudinal section through the growing shoot tips of plant.
 - b) 1. Apical meristem , 2. Intercalary meristem , 3. Lateral meristem
 - c) Function of Apical meristem:- It brings about elongation of stem and roots
Function of lateral meristem:- It helps to increase the diameter of the plant organs.
5. 1. Phloem parenchyma cells, 2. Sieve tubes , 3. Companion cell , 4. Sieve plate
Out of all the cells of phloem the sieve tubes work as a conducting channel.