

## **HOLIDAY HOMEWORK**

### **CLASS VI SCIENCE**

**BY PK Verma**

**Answer the following questions.**

1. With the help of an activity show the process of transpiration in plants. (5)
2. What is photosynthesis why is it essential for plants. What part does chlorophyll play in photosynthesis. (2)
3. Design an activity that will show sunlight is necessary for plants. (4)
4. Explain the main function of the stem of the plant. (2)
5. Distinguish between Hinges joint and pivot joint. (3)
6. Summarise the sentence "muscles contraction moves bones at joints." (3)
7. Examine the main adaptation of birds and write at least six adaptations. (3)
8. Describe the most common way of movement in snakes. (3)
9. Explain why we cannot bend our arm if a light wooden plank tied to it. (3)
10. Name the important waste products of plants. How do plants get rid of their products. (3)
11. Distinguish between living and non-living thing. (3)
12. Write briefly about biotic components and abiotic components. (3)
13. Find out at least five adaptations in camel. (5)

## **HOLIDAY HOMEWORK**

### **CLASS VII BIOLOGY**

**BIOLOGY By PK Verma**

**ANSWER THE FOLLOWING QUESTIONS**

1. State the function of circulatory system. Name the various parts of the human circulatory system. (3)
2. Draw a labelled diagram of the human circulatory system. (4)
3. What is meant by excretion what are the various waste materials excreted from the human body. (3)
4. Why is it necessary to excrete waste product. (3)
5. What are the various organs of the human excretory system. (3)
6. Draw a diagram of the human excretory system and label the various parts. (4)
7. Why do plants need a transport system. Name the two types of vessels constitute the transport system in plants. (5)
8. Explain how water moves from the soil particles to the xylem vessels in the centre of root. (3)
9. How many types of blood vessels are there. Name them. (3)
10. Define arteries, veins and capillaries. (3)
11. What is a stethoscope? Name its various parts. (2)
12. What is pulse? Name one place in your body where you can feel the pulse. What is the pulse rate of an adult person while resting? (3)

## HOLIDAY HOMEWORK

### CLASS VIII B

#### BIOLOGY By PK Verma

#### ANSWER THE FOLOWING QUESTIONS

1. Why are endocrine glands also called ductless glands? (2)
2. What are secondary sexual characters? (2)
3. Explain the development of sex organs in male and female. (2)
4. What are sex hormones? How do they work in the human body? (3)
5. What are the changes in female at the onset of puberty?
6. Explain the terms menarche and menopause. (3)
7. What do you mean by reproductive health?
8. Mention different types of glands, their functions and hormones secreted by them. (3)
9. One day Seema's uncle visited her place. Seema prepared dinner for him. When she was about to put rock salt on the salad, her uncle interrupted her and asked to put iodised salt instead of rock salt. He also advised her to prefer iodised salt instead of rock salt. Why do you think Seema's uncle advised her to have iodised salt instead of rock salt? (2)
10. Is a woman responsible for the birth of a girl child? Explain (3)
11. Salma had a very soft and smooth skin during her childhood. As she entered adolescence, she developed pimples on her face, her body became taller compared to her face. She got worried of all of the sudden changes. Her mother explained that all these changes are normal and advised her to wash her face at regular intervals. (4)
  - Why Salma's mother advised Salma to wash her face at regular intervals?
  - What is the reason for appearance of pimples on her face?
  - Why Salma experienced disproportionate growth of the body?
  - What values do we get from this?

## HOLIDAY HOMEWORK

### CLASS X A BIOLOGY (2023-24)

#### ANSWER THE FOLLOWING QUESTIONS.

1. List two differences between the movement of leaves of a sensitive plant and the movement of a shoot towards light. (2)
2. What happens at synapse between two neurons? State briefly. (2)
3. Give the name of enzyme present in the fluid of our mouth cavity. State the gland which produces it. What will happen to the digestion process if this gland stops secreting this enzyme? (2)
4. Explain the process of transport of oxygenated and deoxygenated blood in a human body. (3)
5. Reflex arcs have evolved in animals? Why? (2)
6. Give reasons for the following: (5)
  - a) During reproduction inheritance of different proteins will lead to altered body designs.
  - b) Fertilization cannot take place in flowers if pollination does not occur.
  - c) All multicellular organisms cannot give rise to new individuals through fragmentation or regeneration.
  - d) Vegetative propagation is practiced for growing only some types of plants.
  - e) The parents and off-spring of organisms reproducing sexually have the same number of chromosomes.
7. All human chromosomes are not human chromosomes have a maternal and paternal copy and we have 22 such pairs. But one pair sex chromosomes is odd in not always being a perfect pair. Women have a perfect pair of sex chromosomes. But man have a mismatch pair in which one is normal size while the other is a short one. (4)
  - a) In humans how many chromosomes are present in zygote and each gamete.
  - b) A few reptiles rely entirely on environmental cues for sex determinations. Comment
  - c) "The sex of a child is a matter of chance and none of the parents are considered to be responsible for it." just divide it through flowchart only.
8. Why do all gametes formed in human females have an X chromosome? (4)

By PK Verma