

**INTERNATIONAL INDIAN SCHOOL RIYADH**  
**SUMMATIVE –I BIOLOGY WORKSHEET**

**ONE MARK QUESTIONS**

1. Which enzyme present in saliva breaks down starch?
2. What is the function of the hormone secreted by the endocrine gland, pituitary?
3. Name the endocrine gland that secretes insulin in our bodies.
4. Which one of the following actions on touch is an example of chemical control?  
Movement on the touch-sensitive plant, Movement in human leg
5. What is a ganglion?
6. What is meant by translocation with respect to transport in plants?
7. In our bodies what is the function thyroxin hormone?
8. State 1 E.g. of chemotropism

**TWO MARKS QUESTIONS**

1. How are fats digested in our body? Where does this process take place?
2. Name three major regions (or parts) of the human brain. Which part of the brain maintains posture and equilibrium?
3. What is Autonomic nervous system? Name the sub systems in which it is sub divided.
4. Draw the human heart and label 1.aorta 2.coronary artery on it
5. Anil has blood group A while Om has blood group O. (a) persons of which blood group can receive blood from Anil and Om? (b) who can donate blood to Anil and Om?
6. Name the finger like projections present on inner lining of the intestine and state their function.
7. Explain with the help of neat and well labeled diagram the different steps involved in nutrition in Amoeba.
8. Why is diffusion not sufficient to meet the oxygen requirement of all the cells in multicellular organisms. (b) How desert plants perform photosynthesis if their stomata remains closed during the day?

**THREE MARK QUESTIONS**

1. (a) Distinguish between producers and decomposers.  
(b) Classify the following as producers and decomposers:  
Green plants, Bacteria, Fungi, blue-green algae.
2. (a) Name the process by which autotrophs prepare their own food. (b) list 3 events which occur during this process. (c) State 2 sources from which plants obtain nitrogen for the synthesis of proteins and other compounds.
3. What are voluntary and involuntary actions? Give one example of each.
4. Name the 2 constituents of the central nervous system in human beings. (b) What is the need for a system of control and co-ordination in human beings.
5. Define hormones. Name the hormone secreted by thyroid. Write its functions. Why is the use of iodized salt advised to us.
6. Draw a diagram of human brain and label on it cerebrum and cerebellum. What is the role of cerebellum?

7. (a) Complete the following table -

	Name of the hormone	Glands which secrete the hormone	Function of the hormone
1	Thyroxine	Thyroid	-
2	Growth hormone	-	Regulates growth and development of the body
3	Insulin	Pancreas	-

b) list 3 characteristics of animal hormones.

8. (a) Draw a neat labeled diagram of a neuron and label dendrite and axon.

(b) Which part of human brain (i) is the main thinking part of the brain

(ii) Responsible for maintaining the posture and balance of the body.

9. (a) why should we use iodized salt in our diet? (b) if iodine is insufficient in our diet, what might be the deficiency disease.

10. (a) Explain how auxins help in bending of plant stem towards light (b) state the objectives of the experiment for which experimental setup is shown in the given diagram -

Fig-7.5 Pg 121 (Ncert Text Book)

11. What causes tendril to encircle or coil around the object in contact with it? Explain the process involved

12. State the sequence of changes that take place human body when it prepares itself to protect itself from a scary or dangerous situation.

#### **FIVE MARKS QUESTIONS.**

1. (a) Draw a diagram of the human respiratory system and label on it Alveolar sac, Bronchioles, Larynx and Trachea.

(b) How are the lungs designed in human beings to maximize the area of exchange of gases?

2. (a) Draw a schematic representation of transport and exchange of oxygen and carbon dioxide during transportation of blood in human being and label on it: lung capillaries, pulmonary artery to lungs, Aorta to body, Pulmonary veins from lungs.

(b) What is the advantage of separate channels in mammals and birds for oxygenated and deoxygenated blood?

3. (a) Draw a diagram of a palisade cell.

(b) Label vacuole, chloroplast cytoplasm and nucleus on the diagram drawn.

(c) Name the pigment which can absorb solar energy

4. (a) Draw a diagram of palisade cell.

(b) label vacuole, chloroplast, cytoplasm and nucleus.

(c) Name the pigment which can absorb solar energy

5. (a) with the help of schematic flow chart show break down of glucose by various path ways during respiration. (b) State the functions of arteries and veins in circulatory system.
6. (a) why is it necessary to separate oxygenated and deoxygenated blood in mammals and birds. (b) How is food transported in plants?
7. (a) Draw a sectional view of human heart and label on it aorta, right ventricle and pulmonary vein. (b) State the role and function of blood, lymph in human transport system
8. Write 2 differences between autotrophic and heterotrophic nutrition. Draw a diagram showing cross section of leaf and label on it phloem, xylem, vascular bundle and lamina.
9. Enumerate the events that actually happen during the process of photosynthesis. Name any 2 parasitic plants and 2 parasitic animals.
10. (a) Draw a diagram of excretory unit of a human kidney and label the following-bowman's capsule , glomerulus, collecting duct, renal artery. (b) Write the important function of the structural and functional unit of kidney. (c) Write any 1 function of the artificial kidney.