

WORK SHEET CLASS XTH (BIOLOGY)

- Q1-What do you mean by life processes? Give three examples and write their importance.
- Q2-What are blood capillaries? How are they differ from veins.
- Q3-Explain the role of following in digestion (a)Pepsin (b)Lipase (c)mucus.
- Q4-What are the differences between aerobic and anaerobic respiration? Name some organisms that use the anaerobic mode of respiration?
- Q5-Explain the following terms :- (a) nephron (b) alveoli (c) villi (d) pulmonary pathway?
- Q6-Explain double circulation in humans with the help of a diagram? Explain its importance.
- Q7-Write any four differences between (a)Veins and arteries (b) Blood and lymph?
- Q8-Define stomata? Explain its structure, location and functions.
- Q9-What is the primary function of red blood cells , white blood cells and platelets?
- Q10-Define excretion? Name the types of excretion with one example of each?
- Q11-Explain human excretory system? Draw a well labeled diagram showing excretory system.
- Q12-What is alimentary canal? Name various parts of alimentary canal and write their functions.
- Q13-Name and explain various stages of photosynthesis? Mention their site and products formed?
- Q14-Define nutrition? Explain holozoic mode of nutrition with one example ?
- Q15-How do unicellular organisms remove waste? Explain the process.
- Q16-How are the lungs designed in human beings to maximize the area for exchange of gases?
- Q17-Why is it necessary to separate oxygenated and deoxygenated blood in mammals and birds?
- Q18-Define nephron? Explain its structure and draw its well labeled diagram.
- Q19-Explain the work mechanism of haemodialysis (artificial kidney)?
- Q20-Which enzyme initiate the digestion of proteins? Name the other enzymes produced by the same gland.
- Q21-Explain in brief two ways by which leaves of a plant help in excretion?
- Q22-What is translocation? Why is it essential for plants.
- Q23-Give reasons:- (a)the walls of ventricles are thicker than atria (b)Amphibians or reptiles have three chambered hearts and can tolerate mixing of oxygenated and deoxygenated blood?
- Q24-Explain why rate of breathing in aquatic organisms is much faster than in terrestrial organism?
- Q25-With the help of an experiment proof that CO_2 is necessary for photosynthesis?
- Q26-Only green part of leaf perform photosynthesis and store starch. Explain with the help of experiment.

Q27- Explain why photosynthesis is considered the most important process in the biosphere?

Q28-Explain the excretory system in humans, including the function of the kidneys, and the process of urine formation.

Q29-Describe the different modes of nutrition in plants and animals, including autotrophic and heterotrophic nutrition.

Q30-(a) What is peristaltic movement?

(b) 'Stomata remain closed in desert plants during daytime'. How do they do photosynthesis?

Q31-(a) Why is nutrition necessary for the human body? (b) What causes movement of food inside the alimentary canal?

(c) Why is small intestine in herbivores longer than in carnivores?

(d) What will happen if mucus is not secreted by the gastric glands?

Q32-Give reasons for the following: (i) Lungs always contain residual volume. (ii) Nostrils are lined with mucus.

Q33-Which one of the following statements is correct about the human circulatory system?

(a) Blood transports only oxygen and not carbon dioxide.

(b) Human heart has five chambers.

(c) Valves ensure that the blood does not flow backwards.

(d) Both oxygen – rich and oxygen – deficient blood gets mixed in the heart.

Q34-Write three types of blood vessels. Give one important feature of each.

Q35-(a) Write two water conducting tissues present in plants. How does water enter continuously into the root xylem?

(b) Explain why plants have low energy needs as compared to animals.

Q36-How involuntary actions and reflex actions are different from each other?

Q37-Why is the use of iodised salt advisable?

Q38-What are phytohormones? Name them

Q39-Why are some patients of diabetes treated by giving injections of insulin?

Q40-What is coordination? Give an example.

Q41-How do we detect the smell of an agarbatti (incense stick)?

Q42-Which types of glands in human body secrete hormones? State any one location for them.

Q43-The neck of a person appears to be swollen.

(a)Name the disease this person suffering from. (b)Name the mineral whose deficiency in the diet causes this disease.

Q44-Why is abscise acid known as stress hormone in plants? Q45-Draw the structure of neuron and explain its function.

Q46-How does our body respond when adrenaline is secreted into the blood

Q47-Differentiate between axon and dendrons?

Q48-Mention the structure of human brain.

Q49-Write different between (a)exocrine and endocrine glands (b)reflex action and walking?

Q50-Mention one function for each of these hormones :- i) Thyroxine ii) Insulin iii) Adrenaline iv) Growth hormone
v) Testosterone.