



SAMPLE QUESTIONS

LIFE PROCESSES



Which of the following is an autotroph? Green plant or Man

2.

Name two inorganic substances which are used by autotrophs to make food.

3.

In addition to carbon dioxide and water, state two other conditions necessary for the process of photosynthesis to take place.

4.

Apart from sunlight and chlorophyll, what other things are required to make food by photosynthesis?

5.

Name the pigment which can absorb solar energy.

6.

Name the organelle of plant cells in which photosynthesis occurs.

7.

- (a) What are autotrophs? Give one example of autotrophs.
- (b) What are the conditions necessary for autotrophic nutrition?

8.

- (a) What are heterotrophs? Give one example of heterotrophs.
- (b) What is the difference between autotrophic nutrition and heterotrophic nutrition?

- 9.
- Define (i) saprophytic nutrition (ii) parasitic nutrition, and (iii) holozoic nutrition. Give one example of each type.
- 10.
- What substances are contained in gastric juice? What are their functions?
- 11.
- What substances are contained in pancreatic juice? What are their functions?
- 12.
- (a) How do guard cells regulate opening and closing of stomatal pores?
- (b)Two similar green plants are kept separately in oxygen free containers, one in dark and the other in continuous light. Which one will live longer? Give reasons.
- 13.
- (a) What is photosynthesis?
- (b) Write a chemical equation to show the process of photosynthesis in plants.
- (c) Explain the mechanism of photosynthesis.
- 14.
- (a) Describe the process of nutrition in Amoeba. Draw labelled diagrams to show the various steps in the nutrition in Amoeba.
- (b) What is the mode of nutrition in Amoeba known as?
- (c) What is the process of obtaining food by Amoeba called?

- **15.**
- (a) Draw a labelled diagram of the human digestive system. With the help of this diagram, describe the process of digestion of food in man.
- (b) Describe one way in which the small intestine is adapted for the absorption of digested food.
- (c) What is the special name of the contraction and expansion movement which pushes the food further in our digestive tract.

The breakdown of pyruvate to give carbon dioxide, water and energy takes place in :

(a) cytoplasm (b) mitochondria (c) chloroplast (d) nucleus

17.

Name one substance which is produced in anaerobic respiration by an organism but not in aerobic respiration.

18.

Which part of roots is involved in the exchange of respiratory gases?

19.

Where does the blood absorb oxygen in the human body?

20.

Name the red pigment which carries oxygen in blood.

What are the differences between aerobic and anaerobic respiration? Name some organisms that use anaerobic mode of respiration.

22.

- (a) What is the function of the respiratory system?
- (b) What are the major organs of respiratory system in man (or humans)?
- (c) Draw a labelled diagram of the human respiratory system.

23.

- a) "Respiration is a vital function of the body". Justify this statement.
- b) What is the main difference between aerobic respiration and anaerobic respiration? Give one example of each.

24.

The xylem in plants are responsible for:

(a) transport of water (b) transport of food (c) transport of amino acids (d) transport of oxygen

25.

What substance/substances are transported in plants by:

(a) xylem vessels and tracheid's ? (b) sieve tubes (or phloem) ?

Veins and arteries carry blood. Which of these carry blood:

- (a) away from the heart?
- (b) back to the heart?

27.

Name two liquids which help in the transport of substances in the human body.

28.

What is the other name of main vein?

29.

What is xylem tissue? Name the two kinds of cells in xylem tissue. State whether these cells are living or dead.

30.

What is phloem tissue? Phloem contains two types of cells joined side by side. Name these two types of cells. State whether these cells are living or dead.

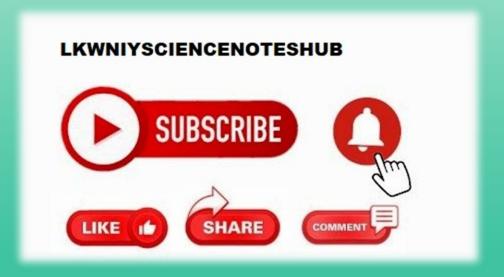
31.

- (a) Draw a labelled diagram of (i) a xylem vessel, and (ii) a sieve tube (or phloem).
- (b) What are the differences between the transport of materials in xylem and phloem?

- **32.**
- (a) What is blood? Why is it red?
- (b) State the functions of blood in our body.
- (c) Name a circulatory fluid in the human body other than blood.
- 33.
- (a) What is meant by human circulatory system? Name the organs of the circulatory system in humans.
- (b) Draw a diagram of the human heart and label its parts.
- (c) What is meant by the terms 'single circulation' and 'double circulation'?
- 34.
- (a) Name the various organs of the human excretory system.
- (b) Draw a neat labelled diagram of the human excretory system.
- (c) What is the function of excretory system in humans?

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