

# SAMPLE QUESTIONS

## **LIFE PROCESSES**



**1.**

**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.**

**16.**

**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.**

**21.**

**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) ?**

**26.**

**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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