

Life Processes – Class 10 Biology MCQs (PYQs Included)

1. Which of the following is an example of an autotrophic organism? (CBSE 2020)

- a) Mushroom
- b) Human
- c) **Green plant**
- d) Yeast

Answer: c) Green plant

2. The site of photosynthesis in a plant cell is: (CBSE 2019)

- a) Mitochondria
- b) **Chloroplast**
- c) Ribosome
- d) Nucleus

Answer: b) Chloroplast

3. Which of the following is the correct equation for aerobic respiration? (CBSE 2022)

- a) **$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{Energy}$**
- b) $C_6H_{12}O_6 \rightarrow 2C_2H_5OH + 2CO_2 + \text{Energy}$
- c) $C_6H_{12}O_6 \rightarrow \text{Lactic acid} + \text{Energy}$
- d) None of these

Answer: a)

4. The breakdown of pyruvate into lactic acid occurs in: (CBSE 2021)

- a) Mitochondria
- b) **Muscle cells (during anaerobic respiration)**
- c) Chloroplast
- d) Nucleus

Answer: b) Muscle cells

5. Which of the following is not a part of the human digestive system? (CBSE 2018)

- a) Stomach
- b) Liver
- c) **Trachea**
- d) Small intestine

Answer: c) Trachea

6. The enzyme present in saliva that breaks down starch is: (CBSE 2019)

- a) Trypsin
- b) **Amylase**
- c) Lipase
- d) Pepsin

Answer: b) Amylase

7. In which part of the digestive system is water absorbed? (CBSE 2020)

- a) Stomach
- b) **Large intestine**
- c) Small intestine
- d) Esophagus

Answer: b) Large intestine

8. The blood vessel that carries oxygenated blood from the lungs to the heart is: (CBSE 2021)

- a) **Pulmonary vein**
- b) Pulmonary artery
- c) Aorta
- d) Vena cava

Answer: a) Pulmonary vein

9. Which of the following is the structural and functional unit of the kidney? (CBSE 2022)

- a) Neuron
- b) Alveoli
- c) **Nephron**
- d) Axon

Answer: c) Nephron

10. The process of removal of waste products from the body is called: (CBSE 2018)

- a) Digestion
- b) **Excretion**
- c) Respiration
- d) Circulation

Answer: b) Excretion

11. Which of the following is the correct pathway of air in humans? (CBSE 2020)

- a) Nostrils → Larynx → Pharynx → Trachea → Bronchi → Alveoli
- b) **Nostrils → Pharynx → Larynx → Trachea → Bronchi → Alveoli**
- c) Nostrils → Pharynx → Trachea → Larynx → Bronchi → Alveoli
- d) None of these

Answer: b)

12. The process by which plants lose water vapor is called: (CBSE 2019)

- a) **Transpiration**
- b) Transportation
- c) Translocation
- d) Respiration

Answer: a) Transpiration

13. Which of the following is not a product of photosynthesis? (CBSE 2021)

- a) Glucose
- b) Oxygen
- c) **Carbon dioxide**
- d) Water

Answer: c) Carbon dioxide

14. The main excretory product in humans is: (CBSE 2018)

- a) **Urea**
- b) Ammonia
- c) Uric acid
- d) Oxygen

Answer: a) Urea

15. Which blood group is called the universal donor? (CBSE 2020)

- a) A
- b) B
- c) AB
- d) **O**

Answer: d) O

16. The process of conversion of light energy into chemical energy occurs in: (CBSE 2022)

- a) **Photosynthesis**
- b) Respiration
- c) Transpiration
- d) Digestion

Answer: a) Photosynthesis

17. The xylem in plants is responsible for the transport of: (CBSE 2019)

- a) **Water and minerals**
- b) Food
- c) Oxygen
- d) Carbon dioxide

Answer: a) Water and minerals

18. Which of the following is not a life process? (CBSE 2021 - Tricky Question)

- a) Reproduction
- b) Excretion
- c) Respiration
- d) **None of these (All are life processes)**

Answer: d) None of these

19. The small pores present on leaves for gas exchange are called: (CBSE 2018)

- a) **Stomata**
- b) Lenticels
- c) Guard cells
- d) Chloroplasts

Answer: a) Stomata

20. The process of breakdown of glucose in the absence of oxygen is called: (CBSE 2020)

- a) **Anaerobic respiration**
- b) Aerobic respiration
- c) Fermentation
- d) Glycolysis

Answer: a) Anaerobic respiration

Key Takeaways:

- ✓ **Most Repeated Topics:** Photosynthesis, Respiration, Digestive System, Excretion.
 - ✓ **Previous Year Marks:** 1 mark each in CBSE board exams.
 - ✓ **Exam Trend:** Diagrams and chemical equations frequently asked.
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