

# General Science - Biological Science Model Paper

Biological Science · Practice Test · 13 Questions

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## 1. What is the equation for photosynthesis?

- A)  $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
- B)  $\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2$
- C)  $6\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
- D)  $\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$

## 2. What is the primary function of the ozone layer?

- A) Absorbs ultraviolet radiation from the sun
- B) Regulates Earth's temperature
- C) Filters harmful gases
- D) Provides oxygen for respiration

## 3. What is the role of DNA in genetics?

- A) Carries genetic information
- B) Synthesizes proteins
- C) Regulates cell growth
- D) Transmits nerve impulses

## 4. In a number pyramid showing trophic levels, which group of organisms has the highest number of individuals?

- A) Producers
- B) Primary Consumers
- C) Secondary Consumers
- D) Tertiary Consumers

## 5. On which plant did Gregor Johann Mendel conduct his famous experiments on inheritance?

- A) Pea plant
- B) Rose plant
- C) Sunflower
- D) Maize plant

## 6. Why is the use of iodised salt advisable?

- A) Prevents iodine deficiency disorders
- B) Enhances taste
- C) Improves digestion
- D) Strengthens bones

**7. What is the longest part of the human alimentary canal?**

- A) Small intestine
- B) Large intestine
- C) Stomach
- D) Esophagus

**8. Which part of the alimentary canal connects the mouth to the stomach?**

- A) Esophagus
- B) Pharynx
- C) Duodenum
- D) Jejunum

**9. What is the role of decomposers in an ecosystem?**

- A) Break down dead organic matter
- B) Produce oxygen
- C) Consume producers
- D) Control population size

**10. What is ozone and how does it affect an ecosystem?**

- A) A gas that absorbs UV radiation, protecting life
- B) A gas that causes pollution, harming life
- C) A gas essential for plant growth
- D) A gas that helps in water purification

**11. Write the differences between autotrophic and heterotrophic nutrition.**

- A) Autotrophs make their own food, heterotrophs obtain food from others
- B) Autotrophs consume plants, heterotrophs consume animals
- C) Autotrophs are carnivores, heterotrophs are herbivores
- D) Autotrophs are producers, heterotrophs are decomposers

**12. How many chambers are there in the human heart?**

- A) Four
- B) Two
- C) Three
- D) One

**13. Which chamber of the human heart receives deoxygenated blood?**

- A) Right atrium
- B) Left atrium
- C) Right ventricle
- D) Left ventricle