

REFERENCE EXAM PAPER

(Includes official reference answers for grading)

Instructions for the Instructor:

- This document contains all 15 questions for the exam.
- **Reference Answer** is provided under each question.
- Ensure students receive only the blank version (without these reference answers).
- Format:
 - Each question is labeled as **Question X**:
 - The official answer is labeled as **Reference Answer**: just after the question prompt.

Exam Questions

Question 1: The Earth is the third planet from the Sun. True or False?

Reference Answer: True. Earth is indeed the third planet from the Sun.

Question 2: Which of the following elements is the most abundant gas in the Earth's atmosphere?

1. Oxygen
2. Hydrogen
3. Nitrogen
4. Carbon Dioxide

Reference Answer: Nitrogen (Choice C). About 78% of the Earth's atmosphere is nitrogen.

Question 3: Solve the equation: $2x + 3 = 9$. What is the value of x ?

Reference Answer: $x = 3$. (Subtract 3 from 9 to get 6, then divide 6 by 2 to get 3.)

Question 4: What is the capital city of France?

Reference Answer: Paris.

Question 5: Fill in the blank: The process by which green plants use sunlight to make food from carbon dioxide and water is called _____.

Reference Answer: Photosynthesis.

Question 6: Which literary device involves a direct comparison using "like" or "as"?

Reference Answer: Simile.

Question 7: Write a short paragraph (2–3 sentences) explaining the importance of recycling.

Reference Answer: Recycling conserves natural resources by reusing materials instead of discarding them. It reduces pollution and saves energy. Overall, it helps protect the environment for future generations.

Question 8: Determine if the following statement is *Fact* or *Opinion*: “Strawberries taste better than oranges.”

Reference Answer: Opinion, because taste preferences are subjective.

Question 9: Which organ in the human body is primarily responsible for filtering blood and producing urine?

Reference Answer: The kidneys.

Question 10: List at least two advantages of using electric cars over gasoline-powered cars.

Reference Answer:

- Electric cars produce zero tailpipe emissions, reducing air pollution.
- They typically have lower operational costs in terms of fuel and maintenance.

Question 11: Which of the following historical figures is known for the theory of relativity?

1. Isaac Newton
2. Albert Einstein
3. Galileo Galilei
4. Stephen Hawking

Reference Answer: Albert Einstein (Choice B).

Question 12: True or False? Water (H₂O) is composed of two hydrogen atoms and one oxygen atom.

Reference Answer: True.

Question 13: In one or two sentences, describe the function of the CPU (Central Processing Unit) in a computer.

Reference Answer: The CPU is the brain of the computer that executes instructions and processes data. It performs arithmetic, logic, control, and input/output operations specified by the computer program.

Question 14: Which color do you get when you mix yellow and blue paint?

Reference Answer: Green.

Question 15: Provide a brief definition of biodiversity.

Reference Answer: Biodiversity is the variety of life in a particular habitat or ecosystem, including the number of different species of plants and animals.

End of Reference Exam Paper