

# REFERENCE EXAM (13 Questions)

*Total = 100 Points*

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## Instructions for Instructor:

- There are 13 questions, adding up to 100 total points.
- Each question has a line `Points:`    `X`, then a line `Reference Answer:`    `....`
- Do not share this version with students—it contains official solutions.

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

**Points:** 5

**Reference Answer:** True. Earth is indeed the third planet.

**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

**Points:** 8

**Reference Answer:** Nitrogen (Choice C). It accounts for about 78% of the atmosphere.

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

**Points:** 7

**Reference Answer:**  $x = 3$ .

**Question 4:** What is the capital city of France?

**Points:** 8

**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 \_\_\_\_\_.

**Points:** 9

**Reference Answer:** Photosynthesis.

**Question 6:** Which literary device involves a direct comparison using “like” or “as”?

**Points:** 6

**Reference Answer:** Simile.

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

**Points:** 12

**Reference Answer:** Recycling conserves resources, reduces landfill waste, and helps protect the environment. It also saves energy and lowers pollution. Overall, it ensures sustainability for future generations.

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

**Points:** 6

**Reference Answer:** Opinion, because taste is subjective.

**Question 9:** Which organ in the human body filters blood and produces urine?

**Points:** 7

**Reference Answer:** The kidneys.

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

**Points:** 8

**Reference Answer:**

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

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

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

**Points:** 8

**Reference Answer:** Albert Einstein (Choice B).

**Question 12:** True or False? Water (H<sub>2</sub>O) is made of two hydrogen atoms and one oxygen atom.

**Points:** 6

**Reference Answer:** True.

**Question 13:** Provide a brief definition of biodiversity.

**Points:** 10

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

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**END OF REFERENCE EXAM**

*(Total = 100 Points)*