REFERENCE EXAM PAPER

(Total: 100 Points)

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Inst	ructi	ons toi	r tne i	ınst	ructor:

- There are 15 questions, summing up to 100 total points.
- Each question has a line Points: X indicating its maximum points.
- Each question ends with Reference Answer:
- Do **not** distribute this version to students; it contains official solutions.

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

Points: 6

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

Points: 10

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?

Points: 6

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?

Points: 3

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: 8

Reference Answer: Photosynthesis.

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

Points: 4

Reference Answer: Simile.

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

Points: 15

Reference Answer: Recycling conserves natural resources by reusing materials. 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."

Points: 3

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?

Points: 6

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, leading to less air pollution. They also 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

Points: 5

Reference Answer: Albert Einstein (Choice B).

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

Points: 3

Reference Answer: True.

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

Points: 10

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

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

Points: 3

Reference Answer: Green.

Question 15: Provide a brief definition of biodiversity.

Points: 10

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

(Total = 100 Points)