

Science Universe

A. Choose the correct answer:

1. What is the primary driving force behind science?
 - a) Money
 - b) Curiosity
 - c) Luck
 - d) Fear
2. What is an example of curiosity leading to scientific exploration?
 - a) Watching television
 - b) Disassembling a toy to understand how it works
 - c) Sleeping early at night
 - d) Reading a storybook
3. How does science help us in everyday life?
 - a) It only helps scientists in labs
 - b) It explains natural phenomena and helps in technological advancements
 - c) It makes life more complicated
 - d) It only applies to physics and chemistry

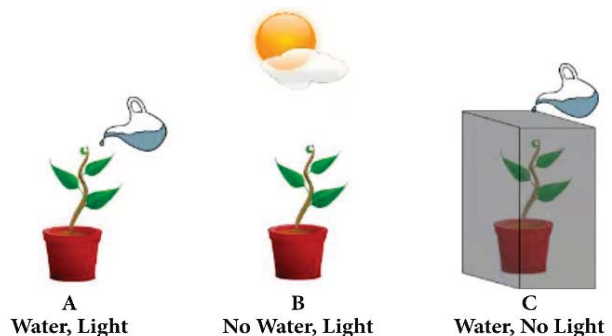
B. Fill in the Blanks:

1. Understanding how plants grow has revolutionized _____, enabling farmers to cultivate better crops and increase yields.
2. Earth's ability to support life is due to its perfect combination of _____ and _____.
3. The process in which a seed grows into a plant is known as _____.

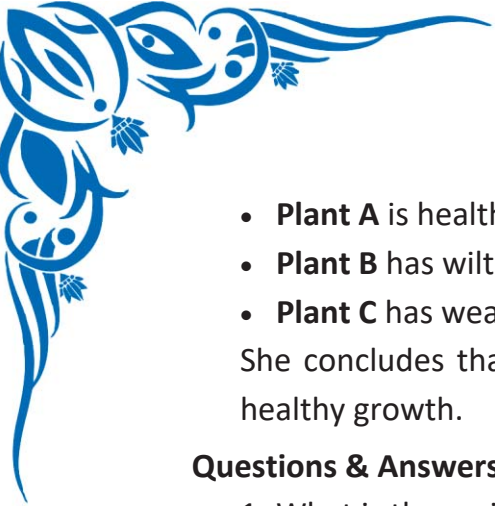
C. Case Study:

A scientist named Dr. Meera is researching how different environmental factors affect plant growth. She sets up an experiment with three identical plants and places them in different conditions:

- **Plant A** is kept in sunlight and watered regularly.
- **Plant B** is kept in sunlight but not given water.
- **Plant C** is placed in a dark room but still watered.



After two weeks, Dr. Meera observes the following results:



- **Plant A** is healthy and growing well.
- **Plant B** has wilted and dried up.
- **Plant C** has weak, yellow leaves and has stopped growing.

She concludes that both sunlight and water are essential for plant survival and healthy growth.

Questions & Answers:

1. What is the main aim of Dr. Meera's experiment?
2. Why did Plant B stop growing even though it was watered?
3. What caused Plant C to wilt and dry up?
4. What conclusion can be drawn from this experiment?

D. Short Answer Questions:

1. What role does curiosity play in scientific discoveries?
2. How does science contribute to improving agriculture?
3. Why is Earth considered a unique planet for supporting life?

E. Long Answer Questions:

1. Explain how science impacts our daily lives with examples from different fields such as medicine, technology, and agriculture.
2. Describe the process of germination and explain why it is essential for life on Earth.
3. How do different ecosystems on Earth contribute to maintaining the planet's natural balance? Provide examples.