

Question 1 (1 point)

Which of the characteristics of life does a robot display? Select all correct answers:

- A. respond to stimuli
- B. consume energy
- C. reproduce
- D. composed of cells (DNA)

Question 2 (1 point)

Which is not considered a method of obtaining energy in living things?

- A. hunting and eating prey
- B. inhaling oxygen and exhaling carbon dioxide
- C. building glucose (sugar) molecules from sunlight, water and carbon dioxide gas
- D. decomposing and absorbing a dead tree trunk log.

Question 3 (1 point)

Which cell organelles were NOT visible under the 400X (high power) microscope objective: Select all correct answers:

- A. mitochondria
- B. nucleus
- C. cell membrane
- D. ribosomes

Question 4 (1 point)

All of these are Kingdoms EXCEPT:

- A. chordata
- B. bacteria
- C. animalia
- D. fungi

Question 5 (1 point)

In the process of science, the difference between repetition and replication is:

- A. Repetition means more than one person, replication means running many trials.
- B. Repetition means using a large sample size and many trials, replication means many scientists test the experiment
- C. Repetition means writing the same parts repeatedly throughout the research plan, replication means copying another researcher's procedure
- D. Repetition means testing the natural world, replication means testing in a laboratory.

Question 6 (1 point)

In Mitosis in an Onion, which cell stage describe the cell pulling apart after the chromosomes have reached their opposite poles, and before the nuclear membranes have completely reformed?

- A. telophase
- B. prophase
- C. metaphase
- D. anaphase

Question 7 (1 point)

Match the tissue type to it's function:

- | | |
|---|--|
| <input type="checkbox"/> 1. skeletal muscle | A. energy storage, insulation |
| <input type="checkbox"/> 2. cardiac muscle | B. moving levers and hinges voluntarily |
| <input type="checkbox"/> 3. hyaline cartilage | C. contracting together in a single beat |
| <input type="checkbox"/> 4. epithelial | D. flexible, but strong structure |
| <input type="checkbox"/> 5. adipose (fat) | E. transmitting signals to muscles and brain |
| <input type="checkbox"/> 6. bone | F. providing a protective surface coating |
| <input type="checkbox"/> 7. nervous | G. hard structure and support |

Question 8 (1 point)

During which stage of mitosis does DNA replicate for the new cell?

- A. prophase
- B. telophase
- C. anaphase
- D. interpahse

Question 9 (1 point)

What is the complement to the following DNA sequence? ATGGCCCTTATA

- A. TAACCGTTAGCT
- B. TACGGGCATGGC
- C. TACCGGGAATAT
- D. ATGGCCCTTATA

Question 10 (1 point)

Which is one characteristic we use to determine if something is living or non living?

- A. movement
- B. consume energy
- C. needs shelter
- D. is composed of matter

Question 11 (1 point)

The heart organ is composed of at least 2 types of tissues, _____ and _____.

- A. nervous tissue and cardiac muscle tissue
- B. epithelial tissue and skeletal muscle tissue
- C. connective tissue and cardiac muscle tissue
- D. connective tissue and smooth muscle tissue

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