

### Question 1

A female dog in estrus attracts males with pheromones. True or False?

Answer: <https://biology-forums.com/index.php?topic=615682>

### Question 2

Similar to a car, a human body is about \_\_\_\_\_ efficient in converting chemical energy to movement.

- A) 1%
- B) 25%
- C) 75%
- D) 95%

Answer: <https://biology-forums.com/index.php?topic=613922>

### Question 3

Which of the following is an example of hydrogen bonding?

- A) The bond between O and H in a single molecule of water
- B) The bond between O of one water molecule and H of a second water molecule
- C) The bond between O of one water molecule and O of a second water molecule
- D) The bond between H of one water molecule and H of a second water molecule
- E) The bond between the H of a water molecule and H of a hydrogen molecule

Answer: <https://biology-forums.com/index.php?topic=613623>

### Question 4

Complementary base pairs are held together by

- A) peptide bonds.
- B) hydrogen bonds.
- C) disulfide bonds.
- D) covalent bonds.
- E) ionic bonds.

Answer: <https://biology-forums.com/index.php?topic=614367>

### Question 5

An ecologist is studying the painted turtle population in a small pond. At the beginning of the year, there are 100 individuals. Over the course of a year, 40 turtles are born and 60 die. There is no migration. What is the growth rate (r) of the painted turtle population?

- A) -0.4
- B) -0.2
- C) 0.2
- D) 0.4
- E) 0.6

Answer: <https://biology-forums.com/index.php?topic=615803>

### Question 6

Paralytic shellfish poisoning occurs when \_\_\_\_\_ are eaten by humans or marine mammals.

- A) dinoflagellates
- B) diplomonads
- C) excavates
- D) diatoms
- E) euglenids

Answer: <https://biology-forums.com/index.php?topic=615169>

### Question 7

Strep throat is caused by Streptococcus, a type of

- A) virus.
- B) bacteria.
- C) prion.
- D) viroid.
- E) archaea.

Answer: <https://biology-forums.com/index.php?topic=615081>

### Question 8

Organisms with pseudopods can surround other organisms and trap them in a \_\_\_\_\_ for digestion.

Answer: <https://biology-forums.com/index.php?topic=615208>

### Question 9

A scientific theory

- A) is a general explanation for natural phenomena.
- B) is an educated guess.
- C) is less reliable than a hypothesis.
- D) will never be changed.

Answer: <https://biology-forums.com/index.php?topic=613519>

### Question 10

If the allele for inflated pea pods (I) is dominant to the allele for constricted pods (i), then the cross Ii x ii is expected to produce

- A) all peas with inflated pods.
- B) all peas with constricted pods.
- C) half with inflated and half with constricted pods.
- D) 3/4 with inflated and 1/4 with constricted pods.
- E) 3/4 with constricted and 1/4 with inflated pods.

Answer: <https://biology-forums.com/index.php?topic=614260>

### Question 11

What would be true if linkage of two genes was complete?

- A) Crossing over between the two genes would never occur.
- B) The genes would assort independently.
- C) All possible combinations of alleles in the gametes would be produced.
- D) All possible combinations of alleles in the offspring would be produced.

Answer: <https://biology-forums.com/index.php?topic=614298>

### Question 12

The site on a chromosome where microtubules attach during cell division is the

- A) histone.
- B) locus.
- C) telomere.
- D) chromatid.
- E) centromere.

Answer: <https://biology-forums.com/index.php?topic=614189>

### Question 13

All of the following are ways in which enzymes are regulated by the cell EXCEPT:

- A) a gene coding for the enzyme may be turned off.
- B) by first synthesizing the enzyme in an inactive form.
- C) by feedback inhibition.
- D) a heavy metal may block the enzymes active site.

Answer: <https://biology-forums.com/index.php?topic=613956>

### Question 14

Watson and Crick are credited with the discovery and description of the DNA

- A) deoxyribose sugar.
- B) phosphate group.
- C) double helix.
- D) hydrogen bonds.
- E) covalent bonds.

Answer: <https://biology-forums.com/index.php?topic=614381>

### Question 15

Which of the following is so small, it is visible only with an electron microscope?

- A) Eukaryotic cell

- B) Prokaryotic cell
- C) Mitochondrion
- D) DNA

Answer: <https://biology-forums.com/index.php?topic=613765>

### Question 16

Which of these enzymes catalyzes the breakdown of starch (a polysaccharide)?

- A) amylase
- B) peptidase
- C) lipase
- D) protease
- E) pepsin

Answer: <https://biology-forums.com/index.php?topic=616495>

### Question 17

Both prokaryotic and eukaryotic cells possess

- A) mitochondria.
- B) chloroplasts.
- C) a nucleus.
- D) ribosomes.

Answer: <https://biology-forums.com/index.php?topic=613811>

### Question 18

It is hypothesized that \_\_\_\_\_ associations may have helped plants colonize dry land.

Answer: <https://biology-forums.com/index.php?topic=615396>

### Question 19

The two ends of a single chromosome are called

- A) genes.
- B) loci.
- C) telomeres.
- D) chromatids.
- E) centromeres.

Answer: <https://biology-forums.com/index.php?topic=614188>

### Question 20

The vocal cords are located in the

- A) larynx.
- B) pharynx.
- C) epiglottis.
- D) trachea.
- E) bronchi.

Answer: <https://biology-forums.com/index.php?topic=616392>