

Question 1

What are the two major methods by which cells communicate to coordinate their functions?

- A) effectors and responses
- B) temperature gradients and pressure gradients
- C) chemical messengers and/or electrical signals
- D) positive feedback loops and negative feedback loops

Answer: <https://biology-forums.com/index.php?topic=498215>

Question 2

Explain how damage to the somatic nervous system would affect the defecation reflex.

Answer: <https://biology-forums.com/index.php?topic=501747>

Question 3

Is a single sperm cell capable of fertilizing a secondary oocyte alone? Explain.

Answer: <https://biology-forums.com/index.php?topic=511397>

Question 4

The mucosa of the carina contains sensory receptors that trigger:

- A) coughing.
- B) hiccups.
- C) yawning.
- D) sneezing.

Answer: <https://biology-forums.com/index.php?topic=501547>

Question 5

Which lymphoid organ is required for the selection of a functional population of T lymphocytes (T cells) for the immune system?

- A) thymus
- B) thyroid gland
- C) tonsil
- D) liver

Answer: <https://biology-forums.com/index.php?topic=501419>

Question 6

How is fructose absorbed across the apical enterocyte membrane?

- A) Na⁺/K⁺ pump
- B) Na⁺/glucose cotransporter
- C) facilitated diffusion
- D) endocytosis

Answer: <https://biology-forums.com/index.php?topic=501714>

Question 7

Which of the following is NOT a subclass of a fibrous joint?

- A) synchondrosis
- B) suture
- C) syndesmosis
- D) gomphosis

Answer: <https://biology-forums.com/index.php?topic=498968>

Question 8

The midbrain, pons, and medulla oblongata of the brainstem all arise from the hindbrain.

Answer: <https://biology-forums.com/index.php?topic=500578>

Question 9

Which muscle assists with smiling?

- A) buccinator
- B) zygomaticus major
- C) orbicularis oculi
- D) depressor anguli oris

Answer: <https://biology-forums.com/index.php?topic=500200>

Question 10

Determine how the sympathetic and parasympathetic nervous systems achieve homeostasis even though they work antagonistically.

Answer: <https://biology-forums.com/index.php?topic=500823>

Question 11

What is the smallest level of structural organization in the human body?

- A) organ level
- B) chemical level
- C) tissue level
- D) cellular level

Answer: <https://biology-forums.com/index.php?topic=498168>

Question 12

Which statement best describes epithelial tissue?

- A) Simple epithelia are commonly found in areas of high mechanical abrasion.
- B) Paracellular or transcellular transport moves substances across simple epithelia.
- C) Pseudostratified epithelia are commonly keratinized.
- D) Stratified epithelia are associated with diffusion, osmosis, and filtration.

Answer: <https://biology-forums.com/index.php?topic=498559>

Question 13

B cells develop and mature in the:

- A) thymus.
- B) liver.
- C) lymph nodes.
- D) bone marrow.

Answer: <https://biology-forums.com/index.php?topic=501445>

Question 14

The three types of cones are designated:

- A) yellow, red, and blue.
- B) red, yellow, and blue.
- C) red, green, and yellow.
- D) red, green, and blue.

Answer: <https://biology-forums.com/index.php?topic=500864>

Question 15

The masseter and temporalis muscles provide much of the force for:

- A) frowning.
- B) chewing.
- C) smiling.
- D) swallowing.

Answer: <https://biology-forums.com/index.php?topic=500209>

Question 16

Each of the following is typical of urine EXCEPT:

- A) a pH of 3.0.
- B) yellow color.
- C) translucency.
- D) mild odor.

Answer: <https://biology-forums.com/index.php?topic=501941>

Question 17

Which of the following is a more complex structure than a tissue?

- A) organ
- B) cell
- C) macromolecule

D) fiber

Answer: <https://biology-forums.com/index.php?topic=498598>

Question 18

What protein makes stratified epithelial tissues resistant to friction?

- A) reticular
- B) keratin
- C) collagen
- D) elastic

Answer: <https://biology-forums.com/index.php?topic=498567>

Question 19

Autonomic motor neurons do NOT innervate:

- A) skeletal muscle cells.
- B) smooth muscle cells.
- C) glands.
- D) cardiac muscle cells.

Answer: <https://biology-forums.com/index.php?topic=500732>

Question 20

The maintenance of a relatively constant internal environment is termed:

- A) homeostasis.
- B) integration.
- C) effector control.
- D) positive feedback.

Answer: <https://biology-forums.com/index.php?topic=498204>