

### Question 1

Which of the following is a normal consequence of the activation of the heat-promoting center?

- A) increase in ADH production
- B) sympathetic sweat gland activation
- C) vasodilation of cutaneous blood vessels
- D) release of epinephrine

Answer: <https://biology-forums.com/index.php?topic=351957>

### Question 2

What structure in skeletal muscle cells functions in calcium storage?

- A) mitochondria
- B) intermediate filament network
- C) sarcoplasmic reticulum
- D) myofibrillar network

Answer: <https://biology-forums.com/index.php?topic=352373>

### Question 3

A boy who has not passed through puberty sustains an injury to his anterior pituitary such that FSH is no longer released, but LH is normal. After he grows to maturity, one would expect that he would \_\_\_\_\_.

- A) be impotent (unable to have an erection)
- B) have impaired function of interstitial cells
- C) be unable to produce viable sperm
- D) not develop secondary sex characteristics

Answer: <https://biology-forums.com/index.php?topic=352177>

### Question 4

Lymph capillaries are absent in all except which of the following?

- A) bones and teeth
- B) CNS
- C) bone marrow
- D) digestive organs

Answer: <https://biology-forums.com/index.php?topic=351676>

### Question 5

What is the difference between the auricles and the atria?

Answer: <https://biology-forums.com/index.php?topic=351587>

### Question 6

The \_\_\_\_\_ gland is especially large in early childhood, then declines in size and function with age.

Answer: <https://biology-forums.com/index.php?topic=351479>

### Question 7

Mineralocorticoid is to aldosterone as glucocorticoid is to \_\_\_\_\_.

- A) estrogen
- B) testosterone
- C) cortisol
- D) epinephrine

Answer: <https://biology-forums.com/index.php?topic=351447>

### Question 8

Which bone acts as a moveable base for the tongue?

- A) zygomatic bone
- B) hyoid bone
- C) mandible
- D) palatine

Answer: <https://biology-forums.com/index.php?topic=352267>

### Question 9

The area of the cortex that is responsible for sensations of the full bladder and the feeling that your lungs will burst when you hold your breath too long is the \_\_\_\_\_.

- A) vestibular cortex
- B) gustatory cortex
- C) olfactory cortex
- D) visceral sensory area

Answer: <https://biology-forums.com/index.php?topic=351083>

### Question 10

ACTH \_\_\_\_\_.

- A) secretion is regulated by a hypothalamic regulatory hormone
- B) causes the release of hormones from the adrenal medulla
- C) is secreted by the posterior pituitary
- D) is not a tropic hormone

Answer: <https://biology-forums.com/index.php?topic=351463>

### Question 11

The \_\_\_\_\_ division alone adapts the lens of the eye for close vision.

Answer: <https://biology-forums.com/index.php?topic=351401>

### Question 12

Arachnoid villi are valvelike structures that protrude externally through the \_\_\_\_\_ mater to absorb cerebrospinal fluid into venous blood.

Answer: <https://biology-forums.com/index.php?topic=351102>

### Question 13

Permitting the exchange of nutrients and gases between the blood and tissue cells is the primary function of \_\_\_\_\_.

- A) capillaries
- B) arterioles
- C) arteries
- D) veins

Answer: <https://biology-forums.com/index.php?topic=351598>

### Question 14

The single most important factor influencing potassium ion secretion is \_\_\_\_\_.

- A) the pH of the ICF
- B) the potassium ion content in the renal tubule cells
- C) potassium ion concentration in blood plasma
- D) intracellular sodium levels

Answer: <https://biology-forums.com/index.php?topic=352081>

### Question 15

The body's water volume is closely tied to the level of which of the following ions?

- A) potassium ions
- B) calcium ions
- C) hydrogen ions
- D) sodium ions

Answer: <https://biology-forums.com/index.php?topic=352069>

### Question 16

The partial pressure gradient for oxygen (in the body) is much steeper than that for carbon dioxide. Explain how equal amounts of these two gases can be exchanged (in a given time interval) in the lungs and at the tissues.

Answer: <https://biology-forums.com/index.php?topic=351848>

### Question 17

The primary function of cellular respiration is to \_\_\_\_\_.

- A) efficiently monitor the energy needs of the body
- B) break down food molecules and generate ATP
- C) determine the amount of heat needed by the human body
- D) provide the body with adequate amounts of vitamins and minerals

Answer: <https://biology-forums.com/index.php?topic=351950>

### Question 18

In order for the DNA molecule to get "short and fat" to become a chromosome, it must first wrap around small molecules called \_\_\_\_\_.

Answer: <https://biology-forums.com/index.php?topic=350842>

### Question 19

If the caudal portion of the neural tube failed to develop properly the \_\_\_\_\_.

- A) spinal cord may be affected
- B) hindbrain would not be present
- C) cranial nerves would not form
- D) telencephalon would cease development

Answer: <https://biology-forums.com/index.php?topic=351054>

### Question 20

Select the correct statement about the function of myocardial cells.

- A) Cardiac muscle cells are innervated by sympathetic, parasympathetic, and somatic nerve fibers so that the nervous system can increase heart rate.
- B) The entire heart contracts as a unit or it does not contract at all.
- C) The refractory period in skeletal muscle is much longer than that in cardiac muscle.
- D) The influx of potassium ions from extracellular sources is the initiating event in cardiac muscle contraction.

Answer: <https://biology-forums.com/index.php?topic=351570>