

### Question 1

During adrenal stimulation, tissue concentrations of epinephrine may remain elevated for as long as 30 seconds, and the effects may persist for several minutes.

True or False?

Answer: <https://biology-forums.com/index.php?topic=839458>

### Question 2

Which blood type could be administered to anyone without the risk of a cross-reaction?

- A) A
- B) B
- C) O
- D) Rh+
- E) AB

Answer: <https://biology-forums.com/index.php?topic=839598>

### Question 3

Age-related changes in the heart include \_\_\_\_\_.

- A) increased maximum cardiac output
- B) reduction in the elasticity of the fibrous skeleton
- C) increased size of coronary vessels
- D) decreased pressures in the great vessels
- E) absence of scar tissue in cardiac muscle

Answer: <https://biology-forums.com/index.php?topic=839783>

### Question 4

By varying the \_\_\_\_\_ at any one time, the nervous system provides precise control over the pull exerted by the muscle.

- A) reflexes triggered
- B) concentration of glycolytic enzymes
- C) number of motor units activated
- D) energy reserves utilized
- E) degree of muscle atrophy

Answer: <https://biology-forums.com/index.php?topic=838942>

### Question 5

The left ventricle pumps blood into the systemic circuit through the \_\_\_\_\_.

- A) left atrioventricular (mitral) valve
- B) pulmonary veins
- C) pulmonary trunk
- D) ascending aorta
- E) venae cavae

Answer: <https://biology-forums.com/index.php?topic=839663>

### Question 6

The body surface region monitored by a specific pair of spinal nerves is called (a) \_\_\_\_\_.

- A) ramus communicantes
- B) ventral ramus
- C) dermatome
- D) perineurium
- E) tract

Answer: <https://biology-forums.com/index.php?topic=839271>

### Question 7

Burrowing of the embryo into the endometrium is called \_\_\_\_\_.

- A) impregnation
- B) permeation
- C) implantation
- D) fertilization
- E) None of the answers are correct.

Answer: <https://biology-forums.com/index.php?topic=840152>

### Question 8

Formation of the neural tube \_\_\_\_\_.

- A) begins at the anterior (head) end and proceeds toward the posterior (tail)
- B) begins at the posterior and proceeds toward the anterior
- C) begins in the middle and proceeds toward the head and the tail
- D) is random in that it can begin and proceed at any location along the neural plate
- E) is caused by compaction of the neural plate

Answer: <https://biology-forums.com/index.php?topic=840189>

### Question 9

The enzyme that is partly responsible for shutting down a muscle contraction is \_\_\_\_\_.

- A) actinin
- B) actinase
- C) acetylcholinesterase
- D) titin
- E) glycolytic enzyme

Answer: <https://biology-forums.com/index.php?topic=838926>

### Question 10

When sensory neurons bring information into the CNS that is subsequently distributed to neuronal pools throughout the spinal cord and brain, the type of processing is known as \_\_\_\_\_.

- A) parallel processing
- B) divergence
- C) convergence
- D) serial processing
- E) reverberation

Answer: <https://biology-forums.com/index.php?topic=839216>

### Question 11

Which of the following pieces of information about an individual can be discerned from the skeleton?

- A) age
- B) sex
- C) muscular development
- D) body size
- E) All of the answers are correct.

Answer: <https://biology-forums.com/index.php?topic=838805>

### Question 12

The right lymphatic duct \_\_\_\_\_.

- A) carries lymph to the right brachiocephalic vein
- B) carries lymph originating in tissues superior to the diaphragm on the right side of the body
- C) carries lymph from tissues inferior to the diaphragm
- D) varies very little from individual to individual
- E) empties into the axillary vein

Answer: <https://biology-forums.com/index.php?topic=839815>

### Question 13

Surfactant abnormalities can develop in adults as the result of severe respiratory infections or pulmonary injuries, which may result in alveolar collapse, producing a condition known as \_\_\_\_\_.

- A) adult respiratory distress syndrome
- B) emphysema
- C) positive end-expiratory pressure
- D) lung cancer
- E) neonatal respiratory distress syndrome

Answer: <https://biology-forums.com/index.php?topic=839911>

### Question 14

What is the function of the distal convoluted tubule of the nephron?

- A) active secretion of ions, acids, and other materials

- B) selective reabsorption of potassium ions from the filtrate
- C) active alkaline secretion
- D) reabsorption of urine
- E) filtration of blood

Answer: <https://biology-forums.com/index.php?topic=840018>

### Question 15

What is the significance of the change in membrane potential of the T tubules within the sarcolemma?

- A) It has no role, because this phenomenon does not occur.
- B) It triggers the sarcoplasmic reticulum to release of calcium ions.
- C) This change is caused by the release of actin and myosin molecules.
- D) This change is caused by the displacement of actin and myosin molecules.
- E) None of the answers are correct.

Answer: <https://biology-forums.com/index.php?topic=838928>

### Question 16

Sympathetic activation is controlled by sympathetic centers in which of the following structures?

- A) pituitary gland
- B) tectum
- C) thalamus
- D) epithalamus
- E) hypothalamus

Answer: <https://biology-forums.com/index.php?topic=839411>

### Question 17

In the prone position, \_\_\_\_\_.

- A) the body faces posteriorly
- B) the body is lying in anatomical position face up
- C) the body is lying in anatomical position face down
- D) the head is turned to the left, and the eyes are closed
- E) the body is situated facing posteriorly and the eyes are open.

Answer: <https://biology-forums.com/index.php?topic=838387>

### Question 18

The T thyrocytes actively transport \_\_\_\_\_ ions into the cell from the interstitial fluid.

- A) potassium
- B) iodide
- C) sodium
- D) thymopoeitin
- E) calcium

Answer: <https://biology-forums.com/index.php?topic=839547>

### Question 19

Parietal cells secrete hydrochloric acid and \_\_\_\_\_.

- A) pepsin
- B) pepsinogen
- C) intrinsic factor
- D) gastrin
- E) mucus

Answer: <https://biology-forums.com/index.php?topic=839945>

### Question 20

Which thalamic structure(s) provide a conscious awareness of emotional states by connecting the basal nuclei and emotion centers in the hypothalamus with the prefrontal cortex of the cerebrum?

- A) anterior nuclei
- B) pulvinar nuclei
- C) medial nuclei
- D) lateral nuclei
- E) ventral nuclei

Answer: <https://biology-forums.com/index.php?topic=839350>