#### What is the primary function of the sympathetic nervous system

- A. To activate the fight or flight response
- B. To regulate digestion
- C. To promote relaxation and rest
- D. To control voluntary movements

Answer: A. To activate the fight or flight response

#### Where are the cell bodies of sympathetic neurons located

- A. In the parasympathetic ganglia.
- B. In the dorsal root ganglia.
- C. In the brainstem.
- D. In the lateral horns of the spinal cord.

Answer: D. In the lateral horns of the spinal cord.

True or False: The sympathetic nervous system is responsible for the "fight or flight

- A. Maybe
- B. Not sure
- C. False
- D. True

Answer: D. True

Which neurotransmitter is released by sympathetic neurons at the target organ

• A. Norepinephrine

• B. Serotonin · C. Dopamine • D. Acetylcholine Answer: A. Norepinephrine What is the main neurotransmitter of the sympathetic nervous system • A. Norepinephrine • B. Serotonin • C. Acetylcholine D. Dopamine **Answer: A. Norepinephrine** What is the name of the ganglia where preganglionic sympathetic neurons synapse • A. Hippocampus • B. Cerebellum • C. Sympathetic ganglia • D. Amygdala Answer: C. Sympathetic ganglia Which division of the autonomic nervous system is responsible for pupil dilation • A. Parasympathetic • B. Somatic C. Sympathetic • D. Central

Answer: C. Sympathetic
True or False: Activation of the sympathetic nervous system leads to increased hear
• A. Maybe
• B. True
C. False
• D. Not sure
Answer: B. True

What hormone is released by the adrenal medulla in response to sympathetic stimul

- A. Melatonin
- B. Insulin
- C. Epinephrine
- D. Cortisol

Answer: C. Epinephrine

What is the term for the process by which sympathetic nerves prepare the body for a

- A. Rest and Digest
- B. Sleep and Rest
- C. Fight or Flight
- D. Relaxation

Answer: C. Fight or Flight

Which branch of the autonomic nervous system is responsible for "rest and digest"
A. Parasympathetic
B. Somatic
C. Sympathetic
• D. Central
Answer: A. Parasympathetic
What is the name of the receptor that responds to the neurotransmitter released by
• A. Serotonin receptor
B. Adrenergic receptor
C. Dopamine receptor
D. Acetylcholine receptor
Answer: B. Adrenergic receptor
In which spinal cord segments are the cell bodies of sympathetic preganglionic neur
• A. T1-L2
• B. C1-C7
• C. L3-S4
• D. S5-Co1
Answer: A. T1-L2
Which part of the brain is responsible for coordinating sympathetic responses
• A. Brainstem

• D. Cerebellum
Answer: B. Hypothalamus
True or False: Activation of the sympathetic nervous system increases blood flow to
• A. Yes
• B. No
C. False
• D. True
Answer: C. False
What is the term for the involuntary response of the body to a stressor
• A. Stress reaction
B. Fight or flight response
C. Fight response
• D. Flight response
Answer: B. Fight or flight response
What effect does the sympathetic nervous system have on the bronchioles in the lur
• A. Dilation
• B. No effect
C. Constriction
D. Relaxation

• B. Hypothalamus

• C. Frontal lobe

Answer: A. Dilation

### What is the name of the nerve that carries sympathetic signals to the heart

- A. Cardiac accelerator nerve
- B. Femoral nerve
- · C. Sciatic nerve
- D. Vagus nerve

Answer: A. Cardiac accelerator nerve

## True or False: Activation of the sympathetic nervous system leads to increased swe

- A. False
- B. True
- C. Not sure
- D. Maybe

Answer: B. True

# What is the term for the communication pathway between sympathetic neurons and

- A. nervous system
- B. sympathetic pathway
- C. target pathway
- D. endocrine system

Answer: B. sympathetic pathway

