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Nervous System — 30 MCQs

Biology | AFNS Academic Test Preparation (FSc Level)

1. The brain cortex is divided into how many lobes?

- A) 2
- B) 3
- C) 4
- D) 5

✓Answer: C) 4

2. The lobe of the brain responsible for vision is the:

- A) Frontal lobe
- B) Parietal lobe
- C) Temporal lobe
- D) Occipital lobe

✓Answer: D) Occipital lobe

3. The basic functional unit of the nervous system is the:

- A) Axon
- B) Neuron
- C) Synapse
- D) Dendrite

✓Answer: B) Neuron

4. The gap between two neurons is called a:

- A) Node of Ranvier
- B) Myelin sheath
- C) Synapse
- D) Dendrite

✓Answer: C) Synapse

5. The part of the neuron that carries impulses TOWARD the cell body is the:

- A) Axon
- B) Myelin sheath
- C) Dendrite
- D) Terminal button

✓Answer: C) Dendrite

6. The part of the neuron that carries impulses AWAY from the cell body is the:

- A) Dendrite
- B) Axon
- C) Nucleus
- D) Synapse

✓Answer: B) Axon

7. The cerebellum controls:

- A) Memory
- B) Balance and coordination
- C) Breathing only
- D) Vision

✓Answer: B) Balance and coordination

8. The frontal lobe of the brain is associated with:

- A) Vision
- B) Hearing
- C) Personality and decision-making
- D) Smell

✓Answer: C) Personality and decision-making

9. The parietal lobe processes:

- A) Vision
- B) Smell
- C) Sensory information (touch, pain)
- D) Language only

✓Answer: C) Sensory information (touch, pain)

10. The temporal lobe is mainly associated with:

- A) Touch
- B) Vision
- C) Hearing and memory
- D) Balance

✓Answer: C) Hearing and memory

11. Which part of the brain regulates body temperature and hunger?

- A) Cerebellum

- B) Hypothalamus
- C) Medulla
- D) Thalamus

✓Answer: B) Hypothalamus

12. The medulla oblongata controls:

- A) Thinking
- B) Involuntary actions like heartbeat and breathing
- C) Voluntary movement
- D) Vision

✓Answer: B) Involuntary actions like heartbeat and breathing

13. The myelin sheath around a nerve fiber is produced by:

- A) Neurons
- B) Schwann cells
- C) Dendrites
- D) Axon terminals

✓Answer: B) Schwann cells

14. The neurotransmitter at the neuromuscular junction is:

- A) Dopamine
- B) Serotonin
- C) Acetylcholine
- D) Epinephrine

✓Answer: C) Acetylcholine

15. Reflex actions are controlled by the:

- A) Brain
- B) Spinal cord
- C) Cerebellum
- D) Hypothalamus

✓Answer: B) Spinal cord

16. Which nervous system controls "fight or flight" responses?

- A) Parasympathetic
- B) Somatic
- C) Sympathetic
- D) Enteric

✓Answer: C) Sympathetic

17. The parasympathetic nervous system promotes:

- A) Fight or flight
- B) Rest and digest
- C) Adrenaline release
- D) Increased heart rate

✓Answer: B) Rest and digest

18. The central nervous system consists of:

- A) Brain and spinal nerves
- B) Brain and spinal cord
- C) Spinal cord and peripheral nerves
- D) All nerves in the body

✓Answer: B) Brain and spinal cord

19. The largest part of the human brain is the:

- A) Cerebellum
- B) Medulla
- C) Cerebrum
- D) Hypothalamus

✓Answer: C) Cerebrum

20. Which of the following is a sensory neuron?

- A) Motor neuron
- B) Interneuron
- C) Afferent neuron
- D) Efferent neuron

✓Answer: C) Afferent neuron

21. Nodes of Ranvier are found on:

- A) Dendrites
- B) Myelinated axons
- C) Synapses
- D) Cell body

✓Answer: B) Myelinated axons

22. The chemical released into the synapse is called a:

- A) Hormone
- B) Enzyme

- C) Neurotransmitter
- D) Receptor

✓Answer: C) Neurotransmitter

23. Multiple sclerosis is caused by damage to the:

- A) Synapse
- B) Myelin sheath
- C) Dendrites
- D) Axon terminals

✓Answer: B) Myelin sheath

24. The spinal cord passes through the:

- A) Cranium
- B) Vertebral column
- C) Sternum
- D) Femur

✓Answer: B) Vertebral column

25. An action potential is:

- A) A chemical signal
- B) A hormonal signal
- C) An electrical nerve impulse
- D) A muscular contraction

✓Answer: C) An electrical nerve impulse

26. The thalamus acts as a:

- A) Memory center
- B) Relay station for sensory signals
- C) Balance controller
- D) Emotion generator

✓Answer: B) Relay station for sensory signals

27. Dopamine deficiency is associated with:

- A) Alzheimer's disease
- B) Parkinson's disease
- C) Multiple sclerosis
- D) Epilepsy

✓Answer: B) Parkinson's disease

28. Serotonin is primarily involved in regulating:

- A) Blood pressure
- B) Mood and sleep
- C) Muscle contraction
- D) Digestion

✓Answer: B) Mood and sleep

29. The peripheral nervous system includes:

- A) Brain and spinal cord
- B) All nerves outside the brain and spinal cord
- C) Only autonomic nerves
- D) Only motor nerves

✓Answer: B) All nerves outside the brain and spinal cord

30. Which lobe contains the primary motor cortex (controls voluntary movement)?

- A) Occipital
- B) Temporal
- C) Parietal
- D) Frontal

✓Answer: D) Frontal

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