Study Guide – Know this for the test!

1. The spinal cord is protected by \_\_\_\_vertebra\_\_\_\_\_.

2. Papillae are \_\_\_\_sensory receptors in taste buds\_\_\_\_\_\_\_\_ .

3. Receptors in your skin include those for sensing vibration, pain, temperature (thermoreceptors) and pressure\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. A feedback mechanism is \_\_\_\_\_\_\_\_cycle of events in which information from one step controls a previous step (hot-sensory neuron, CNS, sweat gland-motor neuron)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Olfactory cells are \_\_\_\_sensory receptors in the nasal cavity (smell)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. What enables you to smell? \_\_\_\_\_\_\_\_\_\_olfactory cells in your nasal cavity (sensory receptors)\_\_\_\_\_\_\_\_\_\_

7. In a neuron, impulses move from\_\_\_dendrite \_\_\_ to\_\_\_cell body\_\_\_\_\_.

8. Which are the functions of the medulla? \_\_\_involuntary processes: heart rate, breathing, blood pressure, body temperature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. What is the function of the cerebrum? \_\_\_conscious thought, memories, voluntary movements, sense touch, light, smell, taste, pain, temperature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. What carries information between the body and the central nervous system? \_\_\_\_neurons\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. What body system does skin belong to? \_\_\_\_integumentary\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. In which order are neurons activated during a reflex response to a painful stimulus? \_\_sensory neurons to CNS to motor neurons\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. Which body functions are controlled by the autonomic nervous system? \_\_\_heart rate, breathing, blood pressure, body temperature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. What is the region of the brain that controls heart rate? \_\_\_medulla\_\_\_\_\_\_

15. What is the nerve cell specialized for transferring messages? \_\_\_neuron\_\_\_\_\_\_\_

16. Sympathetic and parasympathetic systems work together to maintain this: \_\_\_homeostasis\_\_\_\_

17. What is the specialized nerve ending that detects changes inside and outside the body? \_\_receptor\_

18. The part of a neuron that carries impulses away from the cell body is: \_\_\_axon\_\_\_\_

19. The part of the nervous system that includes the brain and spinal cord is: \_\_\_\_central nervous system (CNS)\_\_\_\_\_\_\_

20. The brain region that helps maintain balance is \_\_\_cerebellum\_\_\_\_\_\_\_

21. Which system includes the spinal cord and brain? \_\_\_CNS\_\_\_\_\_\_\_\_

22. Which system controls body functions not under conscious control (you don’t think about)? somatic

23. Which neuron carries nerve impulses to muscles or glands? Motor neuron

24. Which system connects the central nervous system, or CNS, to the rest of the body? PNS peripheral nervous system

25. Which neuron gathers information from inside or outside the body? Sensory neuron

26. Which system sends messages to muscles under voluntary control? somatic