

ANATOMY & PHYSIOLOGY CHAPTER REVIEW GUIDE

1. What is anatomy?
2. What two types of anatomy are there? Describe them.
3. What is physiology?
4. What are the 11 different organ systems of the human body?
5. What is a stimulus?
6. What organ systems respond to stimuli?
7. What kind of signals does the nervous system use to communicate?
8. What two divisions can the nervous system be broken down into?
9. What kind of signal does the endocrine system use to communicate?
10. What is a neuron?
11. Describe the pathway a stimulus will take as it enters and then leaves a neuron.
12. Be able to label the neuron diagram on the attached page.
13. What does "resting potential" mean?
14. What does "action potential" mean?
15. What types of receptors are used for sight?
16. What types of receptors are used for hearing?
17. What types of receptors are used for taste and smell?
18. What types of receptors are used for touch?
19. The PNS includes what parts of the nervous system?
20. The CNS includes what parts of the nervous system?
21. What is the function of the cerebrum and the cerebellum of the brain?
22. What are the three main parts of the brain stem?
23. What is the function of the spinal cord?
24. The somatic and autonomic nervous systems are part of the PNS. What do these do?
25. The sympathetic and parasympathetic nervous systems are also part of the PNS. What do these do?
26. What is a gland? What do glands produce?
27. What are the functions of both the hypothalamus and pituitary glands?
28. What is the function of the respiratory system?
29. Describe the pathway of air, starting with your nose/mouth and ending with the alveoli.
30. What is the function of the circulatory system?
31. Be able to label the parts of the heart on the attached diagram.
32. Describe the pathway of blood as it enters via the Vena Cava and leaves from the Aorta.

33. What two divisions can the circulatory system be broken into? Describe these two divisions.
34. Describe the difference between arteries, veins and capillaries.
35. Blood is composed of what four parts?
36. What is the function of the lymphatic system?
37. What is lymph?
38. Be able to label the parts of the digestive system on the attached diagram.
39. What are villi and microvilli used for in the small intestine?
40. What are the three parts of the small intestine?
41. What is the function of the large intestine?
42. What is the function of the kidneys?
43. What are nephrons?
44. The skeletal system can be broken down into what two divisions? What parts of the skeletal system belong in each division?
45. Be able to label the parts of the skeleton on the attached diagram.
46. What is cartilage used for?
47. What are the three main types of skeletal joints? Describe them.
48. What is a ligament?
49. Bone is made up of what two parts?
50. What are the three kinds of muscle tissue? Describe what makes each unique.
51. What is a tendon?
52. What are muscle fibers?
53. Describe how muscles contract. Can muscles relax on their own?
54. What are the three main layers of skin?
55. What parts are found within each of the layers of skin?
56. Know the anatomical directional terms from the first notes.



