## **Anatomy and Physiology Chapter 1 Exam Study Guide**

|    | what is the difference between anatomy and physiology? Be able to identify between examples of each.      | 14. Identify the five human body cavities and the organs that each contains.  |
|----|---|---|
| 2. | Know the levels of structural organization of the human body starting at the molecular level and          | 15. Know the locations of the major organs.   |
|    | ending with the organism.   | 16. Be familiar with the planes of the human body.  |
| 3. | What is the smallest living unit of all living things?  | 17. Be able to label the four major quadrants of the abdominopelvic cavity.   |
| 4. | Can an organ be part of more than one organ system? Give an example and explain.                          | 18. Be able to label the nine abdominopelvic quadrants.   |
| 5. | Which organ system picks up leaked fluids and returns it to the blood?                                    | 19. Know the body regions covered in class.   |
| 6. | Which muscles make up the muscular system?  | 20. <b>Match each body system to its main function</b> A. Endocrine B. Cardiovascular C. respiratory D. Lymphatic E. Muscular F. Reproductive   |
| 7. | To which two systems do the ovaries and testes belong?  | G. Skeletal H. Integumentary I. Urinary J. Nervous K. Digestive Body movement of trunk and limbs; provides  |
| 8. | What are the necessary life functions for humans and many other animals?                                  | structure and supportEliminates wastes; maintains water and chemica balance Defends and protects the body against infection   |
| 9. | Which survival need is required in order to release energy from food?                                     | and disease Maintains homeostasis by secreting hormones Produces sperm and eggsøproduces offspring Delivers oxygen to and removes carbon dioxide  |
| 10 | Be familiar with the correct order of the elements that make up a control system. (homeostasic mechanism) | from blood Makes food soluble and passes nutrients to the blood Regulates most body systems with impulses   |
| 11 | . Define homeostasis, and explain its importance to survival.   | transmitted by neurons Allows for support, protection, attachment of muscles, storage nutrients and produces blood Protects against pathogens and water loss; contain sensory receptors |
| 12 | . Know how to describe correct anatomical position.   | Transports oxygen, carbon dioxide, and nutrients to and from all body tissues Returns tissue fluid to the blood and destroys  |

13. Be familiar with the various orientation and directional terms regarding the human body.

pathogens that enter the body

21. \_\_\_\_\_ is the study of life.22. The wrist is \_\_\_\_\_ to the elbow.

| 23. The plane that divides the body into equal left  |  |  |  |
|--|--|--|--|
| and right halves?                                    |  |  |  |
| 24. The upper arm is called what?                    |  |  |  |
| 25. The chest is to the umbilicus.                   |  |  |  |
| 26. The eyes are to the nose.                        |  |  |  |
| 27. What are the two terms to describe the front of  |  |  |  |
| the body.  |  |  |  |
| 28. While standing up, the direction of caudal is    |  |  |  |
| 26. While standing up, the direction of caudal is    |  |  |  |
| 20 777 11 1  |  |  |  |
| 29. The chin is to the nose.                         |  |  |  |
| 30. The index finger is to the ring finger.          |  |  |  |
| 31. A person lying face up is called                 |  |  |  |
| 32. A person lying face down is called               |  |  |  |
| 33. The skin is to the muscles.                      |  |  |  |
| 34. The middle toe is to the little toe.             |  |  |  |
| 35. The branch of biological science that deals with |  |  |  |
| the function of organs and systems is called         |  |  |  |
| the function of organs and systems is called         |  |  |  |
|  |  |  |  |
| 36. The branch of biological science that deals with |  |  |  |
| the external and internal structure of body parts    |  |  |  |
| is called  |  |  |  |
| 37. What plane divides the body into anterior and    |  |  |  |
| posterior portions.                                  |  |  |  |
| 38. Away from a point of attachment:                 |  |  |  |
| 39. Away from the body surface:                      |  |  |  |
| 40. The kidneys and urinary bladder are organs of    |  |  |  |
| what system?   |  |  |  |
|  |  |  |  |
| 41. The pituitary gland and thyroid gland are organs |  |  |  |
| of what system?                                      |  |  |  |
| 42. What is a stable internal condition called?      |  |  |  |
|  |  |  |  |
| 43. The diaphragm separates what two cavities?       |  |  |  |
|  |  |  |  |
| 44. The small intestines and the stomach are found   |  |  |  |
| in what cavity?                                      |  |  |  |
| 45. The heart and lungs are found in what cavity?    |  |  |  |
| 46. The organs of the circulatory, digestive, and    |  |  |  |
| urinary system are found in what cavity?             |  |  |  |
| urmary system are round in what cavity?              |  |  |  |
| 47. The busin and oninel and one found in what       |  |  |  |
| 47. The brain and spinal cord are found in what      |  |  |  |
| cavity?  |  |  |  |
| 48. Write the structure that the following regions   |  |  |  |
| correspond to (this is not all of the regions!)      |  |  |  |
|  |  |  |  |
| Abdominal:   |  |  |  |
| Acromial:  |  |  |  |
| Antecubital:   |  |  |  |
| Axillary:  |  |  |  |
| Brachial:  |  |  |  |
|  |  |  |  |
| Buccal:  |  |  |  |
| Calcaneus:   |  |  |  |
| Cervical:  |  |  |  |
| Cranial:   |  |  |  |
| Femoral:   |  |  |  |
| Gluteal:   |  |  |  |
| Hallux:  |  |  |  |
|  |  |  |  |

Inguinal:
Lumbar:
Manus:
Olecranon:
Oral:
Orbital:
Otic:
Palmar:
Patellar:
Plantar:
Pollex:
Popliteal:
Sternal:
Tarsal: