

## Skeletal System Study Guide Health Science I

### True/False

Indicate whether the statement is true or false.

- \_\_\_ 1. Bones surround vital organs to protect them.
- \_\_\_ 2. Bones store most of the calcium supply of the body.
- \_\_\_ 3. The epiphysis is the long shaft of bones.
- \_\_\_ 4. Red marrow is mainly fat cells.
- \_\_\_ 5. Yellow marrow is used to diagnose blood disease and is sometimes transplanted.
- \_\_\_ 6. The yellow marrow contains cells that form leukocytes or white blood cells.
- \_\_\_ 7. The periosteum is necessary for bone growth, repair, and nutrition.
- \_\_\_ 8. The appendicular skeleton forms the main trunk of the body.
- \_\_\_ 9. The cranium is made of 14 bones.
- \_\_\_ 10. The maxilla is the lower jawbone.
- \_\_\_ 11. The two cheek bones are the lacrimal bones.
- \_\_\_ 12. Foramina are openings in a bone that allow nerves and blood vessels to enter or leave the bone.
- \_\_\_ 13. The last two pairs of ribs are called floating ribs because they have no attachment to the thoracic vertebrae.
- \_\_\_ 14. The clavicles provide for the attachment of the upper arm bones.
- \_\_\_ 15. The ulna has a projection, the olecranon process, that forms the elbow.
- \_\_\_ 16. Each os coxae has three regions called the ilium, ischium, and pubis.
- \_\_\_ 17. Examples of synarthrosis joints are the shoulder and hip joints.
- \_\_\_ 18. Amphiarthrosis joints are freely movable.
- \_\_\_ 19. A dislocation occurs when a twisting action tears the ligaments at a joint.
- \_\_\_ 20. Osteoporosis is a metabolic disorder caused by a hormone deficiency.
- \_\_\_ 21. Arthritis is a bone inflammation usually caused by a pathogenic organism.
- \_\_\_ 22. Bone density tests lead to early detection and preventive treatment for osteomyelitis.
- \_\_\_ 23. The symphysis pubis is an opening between the ischium and pubis that allows for the passage of nerves and blood vessels to and from the legs.
- \_\_\_ 24. Hemopoiesis, or hematopoiesis, is the production of blood cells.
- \_\_\_ 25. There are 28 phalanges in the human body.

### Multiple Choice

Identify the choice that best completes the statement or answers the question.

- \_\_\_ 1. The shaft of long bones is the \_\_\_\_\_.
  - a. Diaphysis
  - b. Endosteum
  - c. Epiphysis
  - d. medullary canal
- \_\_\_ 2. The material in bones that produces red blood cells, platelets, and some white blood cells is the \_\_\_\_\_.
  - a. yellow marrow
  - b. Epiphysis
  - c. red marrow
  - d. diaphysis
- \_\_\_ 3. The membrane that lines the medullary canal is the \_\_\_\_\_.
  - a. Periosteum
  - b. Endosteum
  - c. epiphysis
  - d. diaphysis
- \_\_\_ 4. Spaces, or "soft spots," in the cranium that allow for the enlargement of the skull as brain growth occurs are \_\_\_\_\_.
  - a. Fontanels
  - b. Foramina
  - c. sutures
  - d. sinuses
- \_\_\_ 5. Areas where the cranial bones have joined together are \_\_\_\_\_.
  - a. Fontanels
  - b. Foramina
  - c. sutures
  - d. sinuses
- \_\_\_ 6. The vertebrae that are located at the waist are \_\_\_\_\_.
  - a. Cervical
  - b. Lumbar
  - c. thoracic
  - d. sacral
- \_\_\_ 7. The first seven pairs of ribs are called \_\_\_\_\_.
  - a. false ribs
  - b. intercostal ribs
  - c. floating ribs
  - d. true ribs