**Bone Ossification Review Questions**

**Mr. McKenzie**

1. The \_\_\_\_\_\_\_\_\_\_ Skeleton is made up of the head ribs and vertebral Column.
2. The skeleton that is made up of the arms and leg regions of the body is called the\_\_\_\_\_\_\_ skeleton.
3. The number of bones in the human body are \_\_\_\_\_\_\_\_\_.
4. A large roughened projection on the bone that tendons attach to are called \_\_\_\_\_\_\_\_\_\_.
5. Huge bone cells that secrete digestive enzymes and break down bone material are known as \_\_\_\_\_\_\_\_\_\_.
6. The long shaft of a bone, such as the femur is known as the \_\_\_\_\_\_\_\_\_\_\_\_.
7. The bone building cells are called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
8. Mature bone cell that is surrounded by the matrix is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. The spongy layer of bone is has a honey comb appearance with spiny projections is known as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. The connective tissue membrane that covers the outer surface of the bone is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
11. Before eight weeks of development the skeleton of a fetus is made up of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
12. In young adults and middle aged the interior of the shafts of the long bones contain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
13. In young children redbone marrow is produced in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. The canal that is located in the middle of the bone and contains the yellow bone marrow in adults is known as\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
15. The connective tissue that covers the innermost portion of the bone is known as\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
16. The flat needle like projections of the spongy bone are called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
17. \_\_\_\_\_\_\_\_\_\_\_\_\_ gives the bone the ability to resist stretching and twisting and provides the bone to be resilient.
18. Expanded ends of the bone that contain the spongy bone are known as\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
19. The development of bone from fibrous material is known as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
20. The replacement of hyaline cartilage with bone is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
21. Fibrous material that is made up of embryonic connective tissue is \_\_\_\_\_\_\_\_\_\_\_\_\_. This material promotes the production of osteoblast.
22. When bones are developing they are made up of cartilage. The cells composed of cartilage are called\_\_\_\_\_\_\_\_\_\_\_\_\_.
23. A hard outer portion of the developing bone is known as \_\_\_\_\_\_\_\_\_. This is void vascular material and eventually becomes the hard outer portion of the bone.
24. A type of hyaline cartilage that covers the surface of joints / condyles are known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
25. The type of fracture that completely breaks and punctures the skin is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fracture.
26. Vitamin D is also known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
27. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a group of diseases in which bone reabsorption is working faster than bone deposition. This causes the bones to become porous and susceptible to compression fractures of the vertebrae and femur.
28. Wolff’s Law states the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ demand that is placed on a bone, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ that it will grow or remodel.
29. The skeletal system has 6 basic functions they are

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. An area of a bone that has a surface with movement of another bone are known as \_\_\_\_\_\_\_\_\_\_\_ surfaces.