

Skeletal System Study Questions

Dr. J. Lim

1. How is the skeletal system different from the framework of a building?
2. State the five functions of bones
3. Describe spongy bone.
4. Give three examples of long bones.
5. Give two examples of
 - Flat bones -
 - Irregular bones –
6. Is the red bone marrow found in compact or spongy bone?
7. In newborn, what type of bone cell is actively replacing the cartilage model with bone tissue?
8. List the components of the axial skeleton.
9. What is an articulation?
10. Another name for an interlocking, immovable joint is _____.
11. The posterior part of the brain is protected by the _____ bone of the cranium.
12. The cheekbone is a facial bone that is also called the _____.
13. State two functions for fontanelles.
14. To which vertebrae are the ribs attached?
15. Which two structural characteristics act to decrease the shock on your vertebral column?
16. What is the anatomical difference between “true” and “false” ribs?
17. Name two major organs that are protected by the ribcage.

Skeletal System Study Questions KEY

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1. How is the skeletal system different from the framework of a building?
The skeleton is a dynamic system that is constantly changing and replacing itself.
2. State the five functions of bones
Support, protection, movement, storage & blood cell formation
3. Describe spongy bone.
As its name would imply, spongy bone has lots of open space due to the presence of a matrix of small needlelike pieces of bone
4. Give three examples of long bones.
Humerus, radius, ulna, metacarpals, phalanges, femur, tibia, fibula, metatarsals
5. Give two examples of
 - Flat bones – *cranial bones, ribs, sternum*
 - Irregular bones – *vertebra, hip bone*
6. Is the red bone marrow found in compact or spongy bone? *spongy*
7. In newborn, what type of bone cell is actively replacing the cartilage model with bone tissue? *osteoblast*
8. List the components of the axial skeleton. *Skull, ribs, sternum, vertebrae*
9. What is an articulation? *Sites where two bones meet*
10. Another name for an interlocking, immovable joint is *suture*.
11. The posterior part of the brain is protected by the *occipital* bone of the cranium.
12. The cheekbone is a facial bone that is also called the *zygomatic bone*.
13. State two functions for fontanels. *1) Withstand compression at birth 2) Accommodate expansion due to growth*
14. To which vertebrae are the ribs attached? *Thoracic vertebrae*
15. Which two structural characteristics act to decrease the shock on your vertebral column?
Curves and intervertebral discs
16. What is the anatomical difference between “true” and “false” ribs?
True ribs have a direct connection to the sternum. False ribs have no sternal attachment
17. Name two major organs that are protected by the ribcage. *Heart and lungs*