



EXERCISES I

Remember to check your answers carefully with the Answers to Exercises, page 636.

15

A Complete the following sentences.

1. Bones are composed of a type of connective tissue called _____ tissue.
2. Bone cells are called _____.
3. The bones of a fetus are composed mainly of _____.
4. During bone development, immature bone cells called _____ produce bony tissue.
5. Large bone cells called _____ digest bone tissue to shape the bone and smooth it out.
6. Two mineral substances necessary for proper development of bones are _____ and _____.
7. A round, small bone resembling a sesame seed in shape and covering the knee joint is a/an _____ bone.
8. The shaft of a long bone is the _____.
9. The ends of a long bone are the _____.
10. The cartilaginous area at the end of a long bone where growth takes place is the _____.
11. Red bone marrow is found in spongy or _____ bone.
12. Yellow bone marrow is composed of _____ tissue.
13. The strong membrane surrounding the surface of a bone is the _____.
14. Hard, dense bone tissue lying under the periosteum is _____.
15. A series of canals containing blood vessels lie within the outer dense tissue of bone and are called the _____ canals.
16. A thin layer of cartilage covering the ends of bones at the joints is _____.
17. The _____ is a central, hollowed-out area in the shaft of long bones.
18. Two physicians who treat bones and bone diseases are a/an _____ and a/an _____.
19. A practitioner who manipulates the patient's spinal column to relieve pressure on nerves is a/an _____.

B Give a short description of each term.

1. metaphysis _____
2. sinus _____
3. tubercle _____
4. condyle _____
5. fossa _____
6. tuberosity _____
7. trochanter _____
8. foramen _____
9. fissure _____
10. bone head _____

C Match the following cranial and facial bones with their meanings as given below.

ethmoid bone
 frontal bone
 lacrimal bones
 mandible

maxilla
 nasal bone
 occipital bone
 parietal bone

sphenoid bone
 temporal bone
 vomer
 zygomatic bone

1. forms the roof and upper side parts of the skull _____
2. delicate bone, composed of spongy, cancellous tissue; supports the nasal cavity and orbits of the eye _____
3. forms the back and base of the skull _____
4. forms the forehead _____
5. bat-shaped bone extending behind the eyes to form the base of the skull

6. bone near the ear and connecting to the lower jaw _____
7. cheekbone _____
8. bone that supports the bridge of the nose _____
9. thin, flat bone forming the lower portion of the nasal septum _____
10. lower jawbone _____
11. upper jawbone _____
12. two paired bones, one located at the corner of each eye _____

D Name the five divisions of the spinal column.

1. _____
2. _____
3. _____
4. _____
5. _____

E Identify the following parts associated with a vertebra.

1. space through which the spinal cord passes _____
2. piece of cartilage between two vertebrae _____
3. posterior part of a vertebra _____
4. anterior part of a vertebra _____