Axial Skeleton: Pre-lab exercise -- due at the beginning of your lab session.

I. Multiple choice: select the best answer.

1. The skull bone posterior to the foramen magnum is:
   a. atlas.
   b. axis.
   c. occipital.
   d. parietal.

2. The axial skeleton contains:
   a. the skull, vertebral column, and pelvis.
   b. arms, legs, hands, and feet.
   c. the skull, vertebral column, and bony thorax.
   d. shoulder and pelvic girdles.

3. The pituitary gland is housed in the:
   a. vomer bone.
   b. sinuses of the ethmoid.
   c. sella turcica of the sphenoid.
   d. foramen lacerum.

4. The vertebral column is formed from how many irregular bones?
   a. 32
   b. 36
   c. 26
   d. 30

5. The major function of intervertebral discs is to:
   a. prevent hyperextension.
   b. "string" the vertebrae together.
   c. prevent spinal injuries.
   d. absorb shock.

6. All of the following facial bones are paired except one. Which of the following is the unpaired facial bone?
   a. palatine
   b. lacrimal
   c. vomer
   d. maxillae

7. The facial bones include:
   a. lacrimal, nasal, maxillary, mandible
   b. frontal, lacrimal, zygomatic, sphenoid
   c. maxillary, mandible, ethmoid, sphenoid
   d. ethmoid, sphenoid, temporal, parietal
8. Which of the following is not a feature of the mandible:
   a. mental foramen
   b. mandibular foramen
   c. coronoid process
   d. coracoid process
   e. condylar process

9. Bones of the skull that articulate with the temporal bone include the
   a. mandible
   b. occipital
   c. frontal
   d. parietal
   e. all of the above

10. The vertebral arch encloses the
    a. intervertebral foramen
    b. transverse foramen
    c. vertebral foramen
    d. foramen spinosum
    e. mental foramen

11. The joint between the occipital condyles and the atlas allows
    a. rotation of the head as if to say “no”
    b. no movement, it is supportive only
    c. nodding of the head as if to say “yes”
    d. both a and c
    e. none of the above

12. The rib structure which attaches to the vertebral body is the:
    a. costal facet
    b. costal demifacet
    c. capitulum
    d. tubercle
    e. none of the above.

13. Structures to which the ribs attach include which of the following?
    a. the other ribs in a direct bone to bone articulation
    b. the xiphoid process only
    c. the clavicles
    d. the manubrium and the body of the sternum
    e. none of the above

14. Which of the following openings is not found within the middle cranial fossa?
    a. superior orbital fissure
    b. foramen spinosum
    c. foramen lacerum
    d. optic canal
    e. foramen ovale

15. The temporomandibular joint is
    a. the location of the insertion of the temporalis muscle
    b. the suture between the temporal and maxillary bones
    c. the site of the articulation between the cranium and the mandible
    d. the first suture to be completely ossified in the adult skull
    e. an immovable joint
II. Matching — Skull

A. ethmoid
B. frontal
C. lacrimals
D. mandible
E. maxillae
F. occipital
G. palatines
H. parietals
I. sphenoid
J. temporals
K. vomer
L. zygomatic

1. _____ Forehead bone
2. _____ Cheekbone
3. _____ Lower jaw
4. _____ Posterior part of hard palate
5. _____ Single, irregular, bat-shaped bone, keystone of cranium.
6. _____ Anterior part of hard palate.
7. _____ Site of mastoid process
8. _____ Site of cribiform plate
9. _____ Site of mental foramen
10. _____ Site of styloid process
11. _____ Site of foramen ovale.

III. Matching: vertebral column and bony thorax.

A. body
B. intervertebral foramina
C. atlas
D. axis
E. spinous process
F. coccyx
G. superior articular process
H. lumbar vertebra
I. transverse process
J. xiphoid process
K. thoracic vertebra
L. vertebral arch
M. cervical vertebra
N. manubrium
O. body
P. sacrum

14. _____ Weight bearing part of vertebra
15. _____ Type of vertebra(e) containing foramina in the transverse processes.
16. _____ Provides an articulation point for the ribs.
17. _____ Composite bone; articulates with hip bone laterally.
18. _____ Openings provide exit for spinal nerves
19. _____ Massive vertebra, weight sustaining
20. _____ Supports head, allows rocking motion of occipital condyles
21. _____ Twelve components, unfused
22. _____ Inferior part of sternum
23. _____ Site of jugular notch