Study Guide Quiz # 4

1. This Quiz covers exercises on skeleton, Exercise 7 and 8 (black & white lab manual) or Exercises 9 and 10 (colored lab manual). Pay attention to the name of exercise than its number. Figure # may be different in both lab manuals.

Exercise – Overview of Skeleton

2. Study the study guides on Overview-skeleton, Axial skeleton and Appendicular skeleton.
3. Definitions – axial skeleton, Appendicular skeleton; compact and spongy bone; long, short, flat, irregular bones with common examples; table 7.1 Bone marking with examples.
4. Gross anatomy of a typical bone Fig 7.2
5. Microscopic structure of a bone – Osteon- central canal = haversian canal, lamellae, lacunae, canaliculi. Fig 7.3
6. Ossification is the transformation of other tissues into bone. Osteogenesis is formation of new bone tissue and is done by Osteoblasts. Ossification has 2 types. 1. Endochondral Ossification – Bones form due to internal transformation of cartilage to bone, femur, humerus, tibia; Intramembranous Ossification – bones form in the dermis of skin and settle deeper, most skull bones and clavicles; Sesamoid bone – develop from other connective tissue like a tendon, patella = knee cap.
8. Hyaline cartilage, elastic cartilage and fibrocartilage.

Exercise -- Axial Skeleton

9. Total # of bones in axial skeleton is 80.
10. Axial skeleton includes skull, vertebral column and bony thorax.
11. Bones and sutures of cranium – 8 bones.
12. Review questions covered during lab.
13. Study the study guide and lab manual.
14. Bones of Face – 14 bones
15. Sinuses in skull bones – 4 bones – maxilla, sphenoid, ethmoid and frontal.
16. Hyoid bone, location and function.
17. 4 curvatures of vertebral column. Cervical-concave; thoracic-convex; lumbar-concave; sacral-convex.
18. Structure of a typical vertebra
19. Atlas – C1, Axis – C2 has a special process = Dens, typical cervical, typical thoracic and a typical lumbar vertebra, fig – 8.11 lab manual; sacrum and coccyx.
20. Parts of Sternum – manubrium, body and xiphoid process; structure of a vertebral rib, head and tubercle for articulation with body and transverse process of vertebraum, Costal cartilage.
21. True ribs (1-7), false ribs (8-12), floating ribs (11-12)