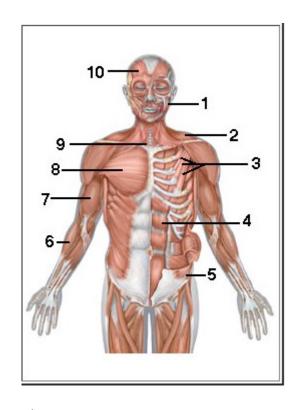
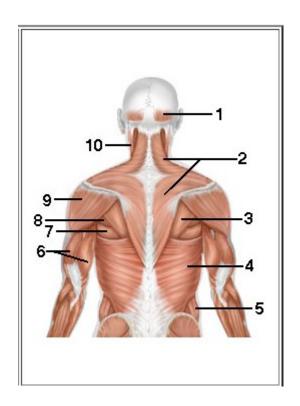
Anatomy and Physiology - Division B 2015-2016

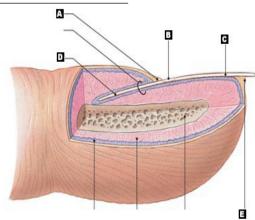
Section 1: Directions: Label the pictures below. (1 point each)



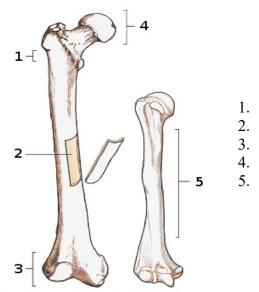


| 1 | |
|-----|--|
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A. B. C. D. E.



Reference: Clinically Oriented Anatomy - Moore

Section 2: Directions: Answer the following questions using complete sentences. (2 points each)

- 1. List two examples of modified sweat glands in the body.
- 2. What is the importance of the "rule of nines" in treatment of burn patients?

- 3. How can a person avoid developing skin cancer during the lifetime?
- 4. List the layers of the epidermis in thick skin from deepest to most superficial.

Section 3: Directions: Match the following numbers to their corresponding letter. All letters will not be used. (1 point each)

| 1. Jaundice | A. a stretching or tearing of ligaments |
|------------------------|---|
| 2. Anemia | B. occurs when the protective cartilage on the ends of your bones wears down over time. |
| 3. Impetigo | C. yellowish discoloration of the skin and its appendages |
| 4. Osteoarthritis | D. progressive weakness and degeneration of the skeletal muscles |
| 5. Osteomyelitis | |
| | E. decreased bone mineral density |
| 6. Osteoporosis | |
| 7. Poliomyelitis | F. increased bone mineral density |
| 8. Sprain | G. a body structure is forcibly detached from its normal point of insertion |
| 9. Avulsion | H. bacterial infection of the skin |
| 10. Muscular Dystrophy | I. viral infection of the skin |
| | J. an infectious disease caused by the human enterovirus |
| | K. infection and inflammation of the bone or bone marrow |
| | L. paralysis caused by HIV |
| | M. disease caused by iron deficiency |

Section 4: Directions: Choose the best answer. (1 point each)

| 1. The specif | ic layer that shapes the ridges for fingerprints and footprints is the |
|---------------|--|
| A) | hypodermis. |
| • | papillary layer of the dermis. |
| , | reticular layer of the dermis. |
| -, | underlying muscle layer. |
| • | superficial bony layer. |
| | of these layers are melanocytes found? |
| A) de | |
| | /podermis |
| | ratum corneum |
| _ | ratum basale |
| E)sti | ratum lucidum |
| | e first step in wound healing? |
| _ | roblasts invade the wounded area |
| | anulation tissue is formed |
| | scar of collagenous fibers appears |
| D) a l | blood clot forms |
| 4. Which of t | these is not a function of the integument? |
| A)sy | nthesis of vitamin D |
| B)th | ermoregulation |
| C) hy | droregulation |
| D) ու | utrient absorption |
| | ligaments lie within the knee joint? |
| | terior cruciate ligament and posterior cruciate ligament |
| | lique popliteal ligament and arcuate popliteal ligament |
| | eral and medial collateral ligaments |
| | terior cruciate ligament and medial collateral ligament |
| 6. The clavic | le articulates with what two bones? |
| | apula and vertebra |
| - | merus and sternum |
| - | merus and vertebra |
| | apula and sternum |
| _ | rtebra and sternum |
| _ | of the vertebral column that is most susceptible to herniated disks is the |
| | rvical region. |
| _ | ccygeal region. |
| - | mbar region. |
| | cral region. |
| E)the | pracic region. |

| 8. The suture that separates the parietal bones from the occipital bone is the |
|---|
| A)coronal suture. |
| B)lambdoid suture. |
| C)sagittal suture. |
| D)squamous suture. |
| 9. What muscle has its origin on the sternum and inserts on the mastoid process of the temporal bone? |
| |
| A) sternocleiodomastoid |
| B) splenius capitis |
| c) semispinalis capitis |
| p) trapezius |
| 10. What is the deepest of the four abdominal muscles? |
| A) rectus abdominis |
| B) external abdominal oblique |
| c) transversus abdominis |
| D) internal abdominal oblique |
| 11. Lumbrical muscles are located in |
| A) Tongue |
| B) Hand |
| C)Head |
| D)Eyeball |
| E) Nose 12. The bane that does not articulate with any other hand is the |
| 12. The bone that does not articulate with any other bone is the A) Scapula |
| B) Sternum |
| C) Stapes |
| D) Hyoid |
| E) Incus |
| 13. The longest muscle in the body is the |
| A) Rectus femoris |
| B) Palmaris Longus |
| C) Gastrocnemius |
| D) Sartorius |
| E) Quadriceps |
| 14. Which of the following statements about skeletal muscle is correct? |
| A)Skeletal muscle contracts slowly. |
| B)Skeletal muscle has a striated appearance under the microscope. |
| C)Skeletal muscle can maintain its contraction for long periods. |
| D)Skeletal muscle is controlled by involuntary nervous action |
| 15. Which of the following statements about creatine phosphate is correct? |
| A)Creatine phosphate is essential in muscle cells for contraction to occur. |
| B)Creatine phosphate is stored in muscle cells unlike ATP. |
| C)Like ATP, creatine phosphate cannot be stored in muscle cells. |
| D)Creatine phosphate is converted to creatinine by creatine kinase |
| |

| Section 5: Direction | s: Fill in the blank with the most appropriate answer. (2 points each) |
|--------------------------------|--|
| 1 in the noticeable on the fin | e stratum basale form patterns of depressions and elevations that are especially gertips. |
| | rule of nines", a man burned extensively an his head and both upper limbs has percent of his body. |
| 3. The | consists of many layers of dead squamous cells surrounded by lipids. |
| 4. The nail is mostly | made up of that contains hard keratin. (layer of epidermis) |
| 5. A burn that involv | es the entire epidermis and some of the dermis is a |
| 6. The field of medic | eal practice involving the integumentary system is called |
| 7 is | s the opaque, white, crescent shaped area at the base of the nail. |
| 8 is | s the smallest unit of contraction in muscle fibers. |
| 9. The connective tis | sue wrapping around a muscle that is continuous with tendons is the |
| | inelastic fibrous tissue that connect a muscle with its bony attachment is called a |
| | ions bind to troponin to move tropomyosin away from actin. |
| 12. The medial and l | ateral condyles of the femur articulate with the of the tibia. |
| 13. The hollow space | e in the middle of bones is filled with |
| 14. Protecting the he | art and lungs is the purpose of the |
| 15 | joints are found in the hip and shoulder. |

Section 6: Directions: Investigate the pictures to find the disease, prevention, and treatment. (2 points)



1. What degree burn does the picture show? Discuss the treatment options.



2. What is this condition? Discuss the triggering factors of this condition.



3. What musculoskeletal condition does this boy have? Define this condition.



4. What type of fracture is shown in the picture? How does it occur?