**BSC 2085L**

**“Need to Know” Sheet**

**Unit 3**

***MEMORIZE*** the following topics below.

**SYNOVIAL JOINTS**

Section 9.4 (p. 362-368)

* Descriptions of the 6 kinds of synovial joints and which are uniaxial, biaxial and multiaxial **(QUIZ)**
  + Figure 9.10

Section 9.5 (p. 371-376)

* Descriptions of movements of the body **(QUIZ)**
  + Figures 9.12 & 9.13
* Identify examples of the 6 different types of synovial joints on the articulated skeletons and the mini joint models.
* For each synovial joint type, be able to indicate if it is uniaxial, biaxial or multiaxial and provide types of movements that occur at each type (Table 9.1)

MAKE SURE TO DO THE PRACTICE QUIZZES! EXACT WORDING ON QUIZ MAY DIFFER SLIGHTLY FROM WHAT YOU SEE IN THESE FIGURES. PRACTICE QUIZZES ARE A BETTER REPRESENTATION OF THAT EXACT WORDING.

**SKELETAL MUSCLE CELLS, TISSUES & ORGANS**

Section 10.2 (p. 407-413)

* Functions of skeletal muscle (system)
* Structure of muscle as an organ, including connective tissue covering (Figure 10.3)
* Recognize the parts of the following structures on muscle fiber models:
  + a skeletal muscle fiber (cell) (Figure 10.4)
  + a sarcomere (Figure 10.5)
  + the neuromuscular junction (Figure 10.6)

**SKELETAL MUSCLES**

Identify the muscles below on a model.

|  |  |
| --- | --- |
| **Head & Neck** | * epicranius frontalis * epicranius occipitalis * orbicularis oculi * orbicularis oris * masseter * temporalis * sternocleidomastoid * digastric * mylohyoid * sternohyoid |
| **Thorax & Shoulder** | * pectoralis major * serratus anterior * deltoid * pectoralis minor |
| **Abdominal Wall** | * rectus abdominis * external oblique * internal oblique * transverse abdominis |
| **Trunk & Shoulder**  (rotator cuff) | * trapezius * latissimus dorsi * infraspinatus * teres minor * supraspinatus * subscapularis * levator scapulae * rhomboids (major & minor) |
| **Arm** | * biceps brachii * triceps brachii * brachialis |
| **Forearm** | * pronator teres * flexor carpi radialis * palmaris longus * flexor carpi ulnaris * extensor carpi ulnaris * extensor digitorum * extensor carpi radialis brevis * extensor carpi radialis longus * brachioradialis |
| **Pelvis & Thigh** | * **Iliopsoas** **group**, consists of the muscles:   + iliacus   + psoas major * tensor fasciae latae * **quadriceps femoris** **group**, consists of the muscles:   + rectus femoris   + vastus lateralis   + vastus medialis   + vastus intermedius (deep, not visible on models) * sartorius * pectineus * **adductor group**, consists of the muscles:   + adductor magnus   + adductor longus   + adductor brevis * gracilis * gluteus maximus * gluteus medius * **hamstrings** **group**, consists of the muscles:   + biceps femoris   + semitendinosus   + semimembranosus |
| **Leg** | * fibularis longus * extensor digitorum longus * tibialis anterior * **triceps surae** **group**, consists of the muscles:   + gastrocnemius   + soleus |