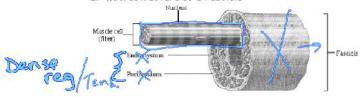
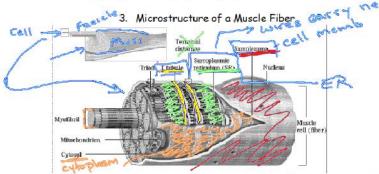


- \* How do you tell the origin of a muscle from its insertion?
  - 2. Microstructure of a Fascicle



\* What is the collective function of the "mesiums", the perimesium, epimysium, and endomysium in the belly of the muscle?



\* Explain the association of a Myofibril, a muscle fiber, a fascicle and a muscle.

4.

- a) Cellular Specializations
- (1) Electrical conductivity muscle fibers conduct electricity through their sarcolemma (cell membrane), sarcoplasmic reticulum (ER) and T tubules.
- (2) Energy production have huge numbers of mitochondria to produce ATP.
- (3) Protein synthesis have many nuclei to provide a lot of RNA for protein synthesis demands.
- \* What common function do the Sarcolemma, Sarcoplasmic reticulum and T tubules perform in a muscle cell?
  - b) Myofibril Protein arrangement
    - (1) Packed with protein, virtually no typical cytoplasm
    - (2) Overlapping Actin and Myosin create strictions.