

Q. Why range of movement is more in parallel muscle than in pinnate muscle

Ans: The range of movement is more in parallel muscle because the muscle fibers in parallel muscle are longer than that of pinnate muscle [Ref: A.K Datta 8th/112]

Q. Pinnate muscle- Explain how structure determines function

Ans:

a. The range of movement is diminished because of the shortness of the muscle fiber and oblique direction of the pull. The force of muscle action is resolved into two component forces; one acts in the line of pull and the other at right angle to it.

b. The total force of contraction is increased due to greater number of muscle fibers. [Ref: A.K Datta 8th/114]

Q. Shunt and Spurt muscle; Explain how structure determines functions

Ans: According to the force of action two types of skeletal muscles are encountered, spurt and shunt

In a simple joint, one bone is more mobile than other bone. A muscle while acting on a mobile bone, exerts a force which according to vector analysis can be resolved into two component forces at right angles to each other- a swing component which tends to produce angular movement of the joint and a shunt component which tends to draw the bone along the shaft towards the joint and compress the articular surface. When the swing component is more powerful, the muscle is

Muscle Structure And Function Packet Answers

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