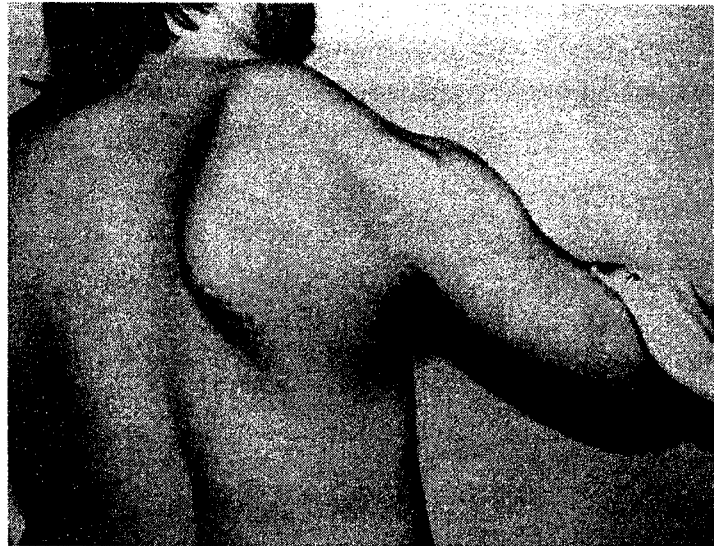


(每一題為 25 分，總分 100 分)

- 一、請由下圖解釋前鋸肌無力對肩胛生物力學的重要性。包括肩胛骨的動作及相對應那些肌肉活動性及適應性反應。(25%)



- 二、請製表並繪圖說明人體正常步態(gait)分那些期(phase)，並用文字簡要說明。(25%)

三、

1. Draw a stress-strain curve of a ligament under tensile test, show elastic region, toe region, yield point, ultimate point on the curve. (10%) How to calculate the Young's modulus? (5%)
2. Draw the load-displacement diagram of a ligament under cyclic tensile test. (10%)

- 四、Please define the following kinesiology/biomechanical terms and use 2 examples to explain clearly. (25%)

1. eccentric contraction
2. open-chained motion
3. neutralizer
4. creep phenomenon
5. curvilinear motion

試題隨卷繳回