

系所組別： 物理治療學系

考試科目： 應用肌動學

考試日期：0224，節次：2

※ 考生請注意：本試題不可使用計算機

1. Please describe what are the glenohumeral stabilizing muscles. What condition will result in if any weakness or dysfunction occurs to these muscles? (15%)
2. The long extrinsic tendons of the dorsal and palmar hand are different in design. Please describe the differences and how these characteristics affect their function. (10%)
3. A lot of two-joint muscle activities occur to our lower extremities. Please identify how each muscle performs relative to the other joint it crosses as it performs its function as the knee under the following conditions. (15%)
 - (1) knee flexion combined with hip extension.
 - (2) knee extension combined with hip extension.
4. Please describe the arches of the foot and their important function. (10%)
5. Please use any **two joints** as examples to explain the “convex-concave principles” of the relationship of arthrokinematic movement of joint surfaces and osteokinematic movement of the shaft of the bones. (20%)
6. Please state the principles of grading of strength of muscle contraction and the size principles of recruitment. (10%)
7. Please define the center of pressure (8%) and state the relationship of center of pressure and the base of support in static standing and dynamic walking. (12%)