編號:

395

國立成功大學一○○學年度碩士班招生考試試題

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系所組別: 物理治療學系 考試科目: 應用肌動學

考試日期:0220,節次:2

※ 考生請注意:本試題 □可 □不可 使用計算機

- 1. Please describe the types of human joints and give examples. Use these examples to compare the motions between osteokinematic and arthrokinematic. (25%)
- Please draw a stress-strain curve for a viscoelastic material, and explain the meaning of this curve in details. (15%) Please further explain the phenomenon of creep and stress-relaxation that a viscoelastic material typically present. (10%)
- The muscle force is contributed by several physiological and anatomical factors. Please discuss how those factors affect the force development in the skeletal muscles. (25%)
- 4. Hip abductors are important for our walking gait. Please answer following questions: (25%)
 - (1) Please list muscles that contributes to hip abduction.
 - (2) The total cross-sectional area of hip abductors is quite smaller compared to that of quadriceps. Why can the hip abductors generate sufficient force to support our body weight?
 - (3) What would you observe in a walking gait if you observe insufficient hip abductor strength on the right side?