編號:

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國立成功大學一○一學年度碩士班招生考試試題

共/頁,第/頁

糸所組別: 臨床藥學與藥物科技研究所甲乙組,護理學系甲組

考試科目: 生理學

考試日期:0226,節次:3

## Answer all 4 questions (each 25%)

- 1. For skeletal muscle, how is its force developed and controlled? Describe with examples when part(s) of the system is impaired in function leading to muscle weakness.
- 2. What is the main function of the heart? How is this function regulated under physiological conditions? Explain why pulmonary edema often develops in the case of a failing heart.
- 3. Homeostasis is the most important concept in physiology. Use the respiratory system to illustrate your knowledge on this. Discuss how the parameters you cited may temporarily deviate from normal under physiological conditions.
- 4. How is our body temperature regulated? In cases when it deviates from normal (chill and fever), what is changed in the system? Discuss the biological advantages and disadvantages of fever.