細號:

國立成功大學九十九學年度碩士班招生考試試題

共 1 頁,第1頁

系所組別: 細胞生物與解剖學研究所

考試科目: 動物學

397

乗材日期:0307・耐次:2

※ 考生請注意:本試顧 □可 □○不可 使用計算機

- Describe the theory of evolution by natural selection proposed by Charles Darwin. Give examples about the evidence of evolution from the aspect of comparative anatomy. (10%)
- Describe glycolysis, aerobic respiration, and the energy (ATP) generated by the catabolism of glucose. (10%)
- 3. What is a cell cycle? How is the cell cycle controlled? (10%)
- 4. Describe the characteristics of vertebrates. (10%)
- 5. Describe the differences in osmoregulation between freshwater fishes and marine fishes. (10%)
- 6. Describe the differences in body temperature regulation between amphibians and mammals. (10%)
- 7. Describe the hormonal control of the ovarian and menstrual cycles in adult human females. (10%)
- 8. Describe the organization and function of the autonomic nervous system in vertebrates. (10%)
- Describe the roles of the pituitary gland in human endocrinology and its functional relationship with the hypothalamus. (10%)
- 10. Describe the cardiovascular (heart and circulation) systems of fishes and mammals. Draw pictures to illustrate the differences in the cardiovascular systems between these two groups of vertebrates. (10%)