國立成功大學九十五學年度碩士班招生考試試題

共/頁,第/頁

科目:動物學

本試題是否可以使用計算機: □可使用 , ☑不可使用

(請命題老師勾選)

- 1. How does the calcium-calmadulin system function? (10%)
- 2. How is kin selection related to natural selection? (10%)
- 3. What is the usefulness of the concept of an ecological niche? (10%)
- 4. What mechanisms prevent fertilization of an egg by more than one sperm? Why is this important? (10%)
- 5. How would the inheritance pattern for an X-linked, dominant trait be different from that of an X-linked, recessive trait? (10%)
- 6. How do new genetic combinations arise during meiosis? (10%)
- 7. Why is the apoptosis (cell death) so important during embryonic development? (10%)
- 8. What possible advantages and disadvantage are there in the evolutionary trend toward cephalization (head formation) of the neurons system? (10%)
- 9. How is information encoded by hormones? How do cells "know what to do" in response to hormonal information? (10%)
- 10. Describe the similarity and difference between sympathetic and parasympathetic system! (10%)