

解釋名詞 (每題4分共40分)

1. Genome
2. Inbreeding
3. Polymerase Chain Reaction
4. Transgenic plant
5. Gene flow
6. Coevolution
7. Deuterostomes
8. Gymnosperms
9. Allelopathy
10. Sociobiology

簡答題 (每題10分共60分)

1. List and briefly describe the major differences between prokaryotic and eukaryotic cells?
2. What is the AFLP marker system? When is it used?
3. Briefly describe the differences between "genetic" and "environment" variance?
4. In 1969, Robert H. Whittaker suggested a five-kingdom scheme which divides all living organisms into five kingdoms: Plantae, Fungi, Animalia, Protista, and Monera. Describe the key differences among them.
5. List and briefly describe the principal components of human blood and the main function of each component.
6. Briefly describe the Darwin-Wallace theory of natural selection.

試題隨卷繳回