

問答題：

1. Give some examples of polygenic inheritance and pleiotropy. How could you distinguish between these conditions? (10 points)
2. What are the four main groups of *Archaea*? What features do they have in common? How do they differ? (12 points)
3. What are trichomes? List some of their functions, and discuss the control of trichome development as deduced from studies of *Arabidopsis*. (16 points)
4. What are the two most common causes of seed dormancy? Discuss some of the ways in which seeds can overcome dormancy. (8 points)
5. Discuss some of the features that distinguish mesophytes, xerophytes, and hydrophytes. (10 points)
6. Why is it important to maintain the genetic diversity of crop plants? Give examples to support your answer. (14 points)
7. Discuss the coevolution of angiosperms and animals in terms of pollination, fruit dispersal, and secondary plant products. (20 points)
8. What is "Golden rice," and why is it important? (10 points)

試題隨卷繳回