

※ 注意：務必依照題號順序作答。

1. Describe (a) Source and Sink; (b) Nutrient loading and unloading. (10 分)
2. Describe the important functions of “Sulfate” in plants. (10 分)
3. How do plants adapt to “Phosphate-limiting” conditions? (10 分)
4. What are “Nod factors”? Why are they important for legume-rhizobium symbiosis. (10 分)
5. (a) What is “Phytosiderophore”; (b) Describe the role of iron-regulated transporter (IRT). (10 分)
6. What is the definition of beneficial elements? Provide three examples of plant-element combination and describe their mechanisms, which are beneficial for plants. (15 points)
7. Distinguish a variety of transmembrane proteins by function. (10 points)
8. Under most circumstances, foliar spray cannot be achieved in commercial plant production. In which conditions; however, does the practical importance of foliar application of nutrients exist? (10 points)
9. How do plants respond to nutrient insufficiency in morphology (*i.e.* the appearance of root and/or shoot)? (10 points)
10. Try to describe the potential difference of nutrient absorption between determinate and indeterminate plants. (5 points)

試題隨卷繳回