

※ 注意：請於試卷內之「非選擇題作答區」標明題號依序作答。

1. Describe the functions and characteristics of five different microscopes used for investigating biological tissues. (15 points)
2. Describe the specific features of proteins with leucine-zipper, helix-loop-helix, and zinc-finger. (15 points)
3. Describe the functions and characteristics of glucocorticoid receptor, and its relationship with glucocorticoid, Hsp90, and glucocorticoid response element. (15 points)
4. Describe the features that a yeast artificial chromosome must have in order to be used to clone a piece of human DNA cut with *EcoRI*. (15 points)
5. Describe the structure and functions of clathrin. (10 points)
6. Describe the structure and functions of ATP synthase? Where is each one located in mitochondria and in chloroplast? (10 points)
7. What are the functions of snoRNAs and snRNAs? (10 points)
8. What are the biological roles of cholesterol? (10 points)

試題隨卷繳回