

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. Please describe how your body keeps warm in various environments! (10%)
2. Please describe why the action potential in neurons is so important to our body, and how it works! (10%)
3. Please briefly draw male reproductive external and internal reproductive organs! Also, please describe their functions in detail. (10%)
4. Explain why different types of cells may respond differently to the same chemical messenger. (10%)
5. Describe the location, structures, and function of the sarcoplasmic reticulum in skeletal-muscle fibers. (10%)
6. What is the mechanism of water reabsorption, and how is it coupled to sodium reabsorption? (10%)
7. Please describe the factors that initiate and control defecation! (10%)
8. If a person failed to develop a thymus, what would happen to the immune responses mediated by antibodies and those mediated by cytotoxic T cells? (10%)
9. Please describe the differences between insulin-dependent and noninsulin-dependent diabetes mellitus. (10%)
10. What are the three basic renal processes that lead the formation of urine? Please describe in detail! (10%)