

※ 考生請注意：本試題不可使用計算機。請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

1. James Rothman, Randy Schekman and Thomas Suedhof received the 2013 Nobel Prize in Physiology or Medicine. Please describe the importance of their findings. (10%)
2. Please describe the signal transduction pathway that lipid-soluble messengers use. (10%)
3. Please describe the anatomical relationships between the hypothalamus and the pituitary. (15%)
4. What is Type 2 diabetes? How does obesity contribute to Type 2 diabetes (15%)?
5. Define a motor unit and describe its structure. (10%)
6. What characteristics are different between facilitated diffusion and active transport? (15%)
7. Please describe homeostasis, negative feedback and positive feedback and give an example for each term. (15%)
8. What is the major defect in AIDS, and what causes it? (10%)