

系所組別： 細胞生物與解剖學研究所

考試科目： 生理學

考試日期： 0308，節次： 1

※ 考生請注意：本試題 可 不可 使用計算機

Answer any 5 of the following questions (each 20 points)

1. Please describe the skeletal muscle contraction mechanism as the muscle fiber received action potential from motor neuron.
2. Please describe the high mountain (altitude) sickness (10 points) and its feedback regulation (10 points).
3. Identify the functions of hypothalamus
4. Please describe the blood circulations routes (14 points) and the regulation of physical readings (blood pressure, flow rate, heart beats) after exercise (6 points)
5. Describe the hormone regulations in female menstrual cycle
6. Please describe the pathways of sympathetic division (10 points) and identify 5 target responses during the sympathetic activation (2 points for each example)