

系所組別： 臨床藥學研究所甲、乙組， 護理學系甲組

考試科目： 生理學

考試日期： 0308， 節次： 3

※ 考生請注意：本試題 可 不可 使用計算機

Answer all 4 questions (25% each):

1. What is a physiological control system? Elaborate its key components and operation using an example in your body. Discuss why some physiological measures lie within a narrow and others in a wide range.
2. Draw a labeled diagram of a chemical synapse. What is its main function? Describe physiological conditions when the synaptic transmission is altered. What are the underlying mechanisms of these alterations?
3. Draw a labeled diagram of the normal oxygen-haemoglobin dissociation curve and its physiological range. In what ways does the haemoglobin dissociation curve differ from that of myoglobin? Discuss the significance of this difference.
4. If you suspected that a particular organ in the body served as an endocrine function, describe experiments that you would need to do to prove your hypothesis.

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