90 學年度 國立成功大學 寫 生理學 (P, U)試題 共 / 頁 所 生理學 (P, U)試題 第 / 頁

Answer a total of 5 questions out of the followings (each 20%)

- 1. What changes stimulate chemoreceptors and baroreceptors? Describe the results after the stimulation of these receptors.
- 2. List the effects of LH and FSH on the ovary and testis.
- 3. Draw a flow diagram illustrating the factors that increase the mean arterial pressure?
- 4. Explain the mechanism that a patient with diabetes mellitus loses glucose from urine? and why the urine excretion increases when we drink a bulk of water?
- 5. How does the nerve system distinguish the different types of stimuli, different intensity of stimuli, and different location of stimuli? Describe the different ascending pathways between thermo-sensation (warm or cold) and other sensations.
- 6.Diagram the CRH-ACTH-cortisol system. A person is receiving very large doses of a cortisol-like drug to treat her arthritis. What happens to this system?