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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. Using a flowchart to explain the control of ventilation by central nervous system, chemoreceptors and pulmonary stretch receptors. (15%)
2. Describe the brain circuits involved in controlling emotion, learning and memory, sleep-wake cycle, somatic sensation, and body movement. (25%)
3. Distinguish the regulation of neurotransmission, endocrine, exocrine, and autocrine/paracrine. (10%)
4. Describe the interaction and functions of the axis of hypothalamus — pituitary gland — adrenal gland. (10%)
5. Predict what effects tying of the pancreatic duct would have on pancreatic structure and function. (10%)
6. Explain the mechanisms that increase cardiac output and that increase the rate of blood flow to the skeletal muscle during heavy exercise. (15%)
7. Explain how the kidneys regulate blood pressure. (15%)