

1. Describe all the sensory receptors in your face and discuss the pathway associate to touch and cold, respectively. (10%)
2. Define the tissue macrophage including their origin and their contribution to body defense. (10%)
3. Describe the systemic cardiovascular regulatory mechanism. (10%)
4. Describe the following terms briefly: (10%)
  - (1) sarcotubular system
  - (2) lower motor neuron
  - (3) motor homunculus
  - (4) cytokine
  - (5) angiogenesis
  - (6) isovolumetric ventricular contraction
5. 敘述胃液分泌的調控機轉 (10%)
6. 敘述 Buffer system 與呼吸作用如何調節體內 pH 值 (10%)
7. 敘述腦下垂體 (Pituitary gland) 與下視丘 (Hypothalamus) 在內分泌上的相互關係 (10%)
8. 簡述腎臟如何調控血壓 (10%)
9. 敘述或用曲線圖表示女性月經周期各種激素 (Hormone) 與子宮內膜的變化(需包含腦下垂體與卵巢激素) (10%)
10. 解釋名詞：Tidal volume, Inspiratory reserve volume, Expiratory reserve volume, Residual volume, Vital capacity (10%)