

※ 注意：請於試卷上「非選擇題作答區」標明大題及小題題號，並依序作答。

1. Please explain the functional divisions of the nervous system including the subdivisions of each (main function of each should be described). (15 points)
2. Please discuss the roles of the pituitary gland in maintaining homeostasis and regulating body functions. Explain the anatomical structures involved, the hormones they secrete, and the target organs or tissues affected by these hormones. Provide specific examples to support your answer. (25 points)
3. Please briefly describe the mechanical events of the cardiac cycle. Provide specific terms to support your answer. (10 points)
4. 自主神經系統分為交感神經及副交感神經，請說明它們的組成、訊息傳遞途徑及作用特性。(12分)
5. 請說明調控胃的壁細胞(Parietal cell)分泌胃酸的機制。(10分)
6. 請說明糖在持續被吸收進入動物體內後，可能的代謝/轉化途徑及機制。(10分)
7. 生殖週期相關問題：
 - A. 在生殖週期初期，卵巢中的原始卵泡(Primordial follicle)是被哪個荷爾蒙喚醒，開始發育?(2分)
 - B. 請說明促使成熟的濾泡排出卵子的機制。(4分)
 - C. 請說明造成女性月經的生理機制。(4分)
8. 請說明胎兒在母體生長發育後，促發母體生產的機制。(8分)

試題隨卷繳回