

慈濟大學醫學資訊學系
104學年度碩士班入學考試命題紙

科目：生理學

共1頁

No calculators or reference books allowed

1. Describe an action potential. How does conduction along a myelinated fiber differ from conduction along an unmyelinated fiber? (25%)

2. Compare and contrast the following hormones:
 - a. calcitonin and parathyroid hormone(10%)
 - b. cortisol and aldosterone(5%)
 - c. insulin and glucagon(5%)
 - d. testosterone and estrogen(5%)

3. Explain the purpose of the four heart valves and describe their structure and location. What prevents the valves from opening backwards? (25%)

4. Trace the path of air from the nostrils to the lung capillaries. (25%)