

科目：生理學

日期：98 年 7 月 24 日 第 1 頁 共 1 頁

請“✓”明 ✓不可看書 可看書

* 請將答案依題號順序寫入答案卷

答題時字跡需工整，否則不予計分。Write your answers legibly; otherwise you will get zero score.

1. Please explain the following terms (18%).
 - a. Habituation
 - b. Long-term potentiation
 - c. All-or-none law
 - d. Hemostasis
 - e. Homeostasis
 - f. Osmotic dieresis
2. Please describe and compare the action potential of a nerve cell and a cardiac muscle (10%).
3. Please describe the regulation of respiratory activity (12%).
4. Please describe the the hemorrhage activated renal, cardiovascular and neural negative feedback controls of blood volume, osmolality and pressure (15%).
5. Please list the two major hormones that affect the plasma glucose concentration and briefly describe the action of each (10%).
6. Please describe the glia cells in the CNS and their major function (10%).
7. Please describe five methods (measurements) used for assessing the function of our brain (5%).
8. Please describe the structure and function of basal ganglia (10%).
9. Please describe mechanisms for protecting stomach and duodenum against HCL and pepsin (10%).