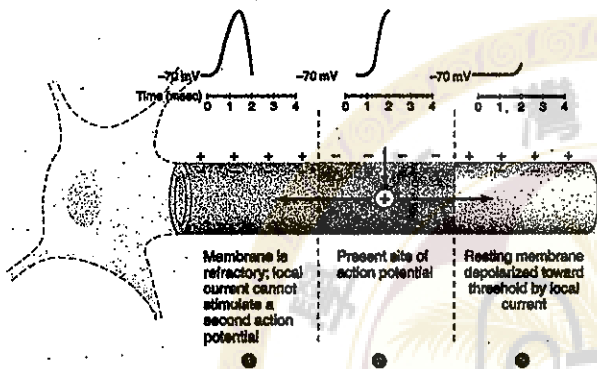


I. 解釋名詞 (5% for each item, for a total of 40%)

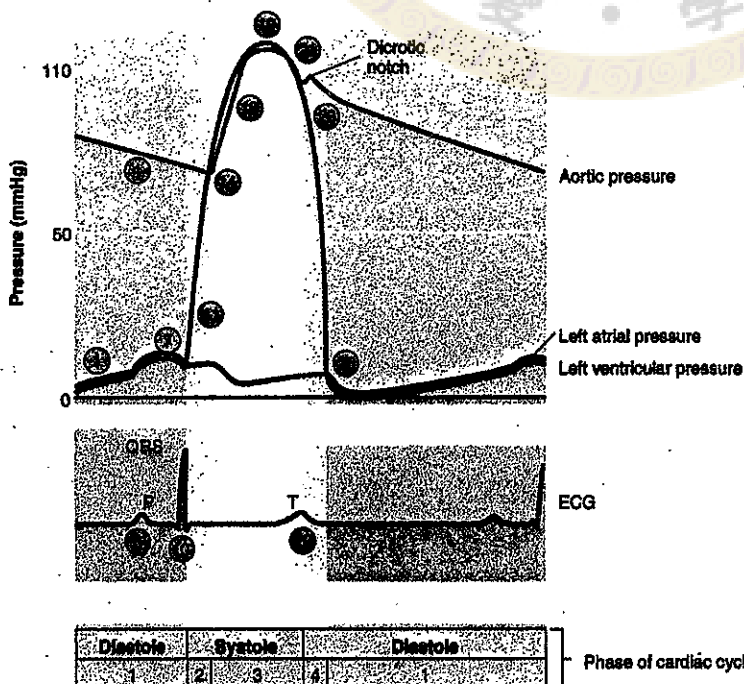
1. Semi-permeable membrane
2. Isometric contraction of the muscle
3. Receptor antagonist
4. Fight-or-flight response
5. REM sleep
6. Vital capacity
7. Renin
8. Basal metabolic rate

II. 簡答(參考附圖, total 30%)



1. Where the action potential of a neuron is usually initiated? (5%)
2. When an axon is stimulated at the middle part by an electrical stimulus, which way the action potential will propagate? (5%)
3. Which ion channel(s) is(are) responsible for the generation of an action potential? (2%), and why? (8%)
4. Which ion channel(s) is(are) responsible for refractory period of the membrane? (2%) and why? (8%)

III. 請依照附圖描述心搏周期內(1)心電圖, (2)心室血壓,及(3)動脈血壓的變化(10%);並說明心電-心室血壓(10%),及心室血壓-動脈血壓(10%)的關係



試題隨卷繳回