

※ 考生請注意：本試題不可使用計算機

每題十分

1. Please briefly describe creatinine clearance and osmolar clearance with respect to renal function (10%).
2. Please briefly describe the main difference between pulmonary and systemic circulation (10%).
3. Please briefly describe the cell cycle in the dividing cell (10%).
4. Please briefly describe the generation for membrane potential of motor end plate in neuromuscular junction (10%).
5. Please briefly describe how the Nernst potential (or equilibrium potential) is generated (10%).
6. Please briefly describe how acetylcholine influences the pacemaker activity in the sinoatrial and atrioventricular nodes (10%).
7. Please briefly describe the corticospinal tract in central nervous system (10%).
8. Please briefly describe the function of nitric oxide on blood vessel (10%).
9. Please briefly describe the function of stimulatory and inhibitory G protein(s) on the level of intracellular cyclic AMP (10%).
10. Please briefly describe the contribution of voltage-gated sodium current in membrane potential of excitable cell (10%).