

國立臺灣體育大學(桃園)九十七學年度研究所碩士班入學考試試題
人體生理學 (本試題共一頁)

- ※注意：1 答案一律寫在答案卷上，否則不予計分。
2 請核對試卷、准考證號碼與座位號碼三者是否相符。
3 試卷『彌封處』不得污損、破壞。
4 行動電話或呼叫器等通訊器材不得隨身攜帶，並且關機。

本科總分 100 分

中、英文答題皆可(每題 10 分)

1. Please explain the oxyhemoglobin dissociation curve and what are the factors that can have impact on the curve.
2. Please explain the different components of electrocardiogram (ECG) and explain the application of ECG.
3. Please explain the respiratory control during rest and exercise.
4. Please write down the location and functions of Juxtaglomerular Apparatus (JGA).
5. Please explain the changes of plasma concentrations of glucose, glucagons, and insulin after meals.
6. Please explain membrane potential changes and membrane permeability to sodium and potassium ions during action potential.
7. Please explain the sliding filament theory and list the functions of ATP in skeletal muscle contraction.
8. Please write down hormones released by posterior and anterior pituitary (two for each) and explain their functions.
9. Please explain the functions and their mechanisms of vestibular system in inner ears.
10. Please write down the neurological pathway of withdrawal reflex of right hand.