

# 中山醫學大學 98 學年度碩博士班甄試入學招生考試試題

## 營養學系碩士班

考試科目：營養學

時間：80 分鐘

※請注意本試題共( 1 )張，如發現頁數不足，應當場請求補齊，否則缺頁部份概以零分計算。第 ( 1 ) 頁

本試題共四大題，總分 100 分。

1. Please define and compare “basal metabolic rate” and “resting metabolic rate”. (20%)  
How to calculate total energy expenditure? (10%)
2. Please state the new criteria for diagnosis of metabolic syndrome of Taiwan in 2007 (10%), and state the reasons why the old criteria were modified? (10%)
3. Free radicals play an important role in the development of disease in human. Please explain what is free radical? (10%) Normally, free radicals are neutralized by antioxidants. There are many antioxidants present in various compartments that fulfill a protective role, please describe these enzymatic and non-enzymatic defense systems in the human body. (20%)
4. Please describe the systems which maintain homeostatic control of blood pressure in the human body. (10%) Please identify the micronutrients that may affect blood pressure. (10%)