題號: 463 國立臺灣大學 105 學年度碩士班招生考試試題

科目:微生物學(D)

節次: 7

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每一大題各10分,共100分

- 1. Differentiate the terms of
 - (1) humoral and cellular immunity
 - (2) selective and differential medium
 - (3) exotoxin and endotoxin
 - (4) attenuated and inactivated vaccine
 - (5) polyclonal and monoclonal antibody
- 2. What are the major structural differences between gram-positive and gram-negative bacterial cell wall?
- 3. Give the condition that an autoclave is performed.
- 4. How can a human make over one billion different antibodies with only 35,000different genes?
- 5. Give four modes of action of antibacterial drugs.
- 6. 在自然界質體(plasmids) 通常會在哪些生物存在?質體在自然界之特性與功能有哪些?
- 7. 說明放線菌(Streptomycetes)之:(1)特性,(2)生態功能,(3)在生物科技上之應用。
- 8. 關於共生真菌與其寄主植物:(1)舉例,(2)說明兩者間之交互作用特性。
- 9. 比較瘧疾(Malaria)與茲卡病毒感染症(Zika virus infection) 之相同點與差異點。
- 10.海洋富含可能具有生醫應用潛力之各式微生物,請說明要如何調查海洋微生物之多樣性。

試題隨卷繳回