113 BE0

國立臺北科技大學 113 學年度碩士班招生考試

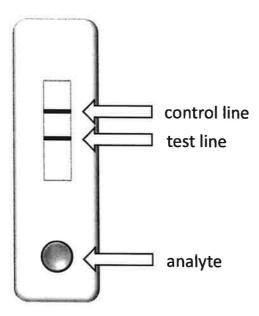
系所組別:3601

化學工程與生物科技系生化與生醫工程碩士班 第一節 生物化學 試題(選考)

第1頁 共1頁

注意事項:

- 1. 本試題共七題,總共100分。
- 2. 不必抄題,作答時請將試題題號及答案依照順序寫在答案卷上。
- 3. 全部答案均須在答案卷之答案欄內作答,否則不予計分。
- 1. Why is it necessary for us to eat food? (15 points)
- 2. How do refrigerators extend the shelf life of food? (15 points)
- 3. What is the connection between a lack of vitamin C and scurvy(壞血病) in humans? (15 points)
- 4. Why does a human skeleton muscle generate lactate under an anaerobic condition? (15 points)
- 5. Describe the detaily mechanism of a COVID-19 antigen rapid test kit, as shown in the right image. (Note: There is no need to explain how to use it.) (15 points)



- 6. How does an enzyme reduce its activation energy to catalyze a biochemical reaction? (15 points)
- 7. If there is one gram of DNA composed of 5 kb plasmids, how many plasmids are present? (10 points)