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國立中央大學95學年度碩士班考試入學試題卷 #____ 第 1 頁

所別:企業管理學系碩士班一般類組(丙組)科目:生物化學(含分子生物學)

I. 是非題 (2 points each)

- 1. Proteins absorb UV light.
- 2. DNA absorbs UV light.
- 3. RNA absorbs UV light.
- 4. Glycolysis only occurs only at aerobic condition.
- 5. β -oxidation occurs only at aerobic condition.
- 6. Respiration occurs only at aerobic conditon.
- 7. photosynthesis is involved in oxidative phosphorylation.
- 8. Fermentation is involved in oxidative phosphorylation.

II.解釋名詞: (6 points each)

- 1. Enzyme cofactor
- 2. Catabolism
- 3. Anabolism
- 4. Glycolysis
- 5. Phospholipid
- 6. Transposable element
- 7. Genetic code
- 8. RNA splicing
- 9. Citric acid cycle
- 10. β-oxidation

III. Please describe the function of the following enzymes: (4 points each)

- 1. DNA polymerase
- 2. RNA polymerase
- 3. Restriction enzyme
- 4. DNA ligase
- 5. Telomerase
- 6. Lysozyme