淡江大學 109 學年度碩士班招生考試試題 糸 科目:普通生物學 化學學系 别: 本試題共 十 大題,一 頁 考試日期:3月8日(星期日) 第2節 簡答題(每題十分)請將答案寫於答案卷,記得註明題號 一、試述何謂 eukaryotic cells、prokaryotic cells, 並且比較其差異。 二、試述何謂 competitive inhibitors、noncompetitive inhibitors, 並且比較其差異。 三、試述何謂 Fungi。 四、試述何謂 biomass energy。 \mathcal{I} > Describe the mechanism and purpose of feedback inhibition in a metabolic pathway. \Rightarrow What are the two stages of photosynthesis? What are the key products of each stage? モ、Explain how species' names follow a binominal nomenclature. Give an example. \wedge Let's suppose a gene mutation changed the sixth codon from one that specifies lysine to a stop codon. How would this mutation affect transcription? How would it affect translation? \hbar . What are the key features of DNA that allow it to be replicated? How does the replication process affect the ability of DNA to store information?

+ · Explain how restriction enzymes and DNA ligase are used to insert a gene into a plasmid.

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