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系所組別: 口腔醫學研究所甲組

考試科目: 生物化學

考試日期:0307·前次:2

※ 考生請注意:本試題 □可 ☑不可 使用計算機

- 1. Briefly describe the following terms. (25%)
 - a. Receptor tyrosine kinase
 - b. Frame shift mutation
 - Palindrome
 - d. Leucine zipper
 - e. Western blotting
- 2. Compare the following terms: (30%)
 - a. N-linked vs. O-linked oligosaccharides of glycoproteins
 - b. Sense vs. Antisense strand of DNA
 - c. Phosphatidylinositol 4,5-biphosphate vs. Inositol 1,4,5-triphosphate
 - d. Telomere vs. Telomerase
 - e. Amylose vs. Cellulose
- Describe the basic principles how it is possible to identify proteins by mass spectrometry. (10%)
- Compare the metabolites varies in the mitochondria of liver during fasting and after a meal. (10%)
- 5. Describe the biogenesis and function of microRNA. (10%)
- Describe three techniques can be used to detect the expression level of genes in cells and tissues. Compare their sensitivity and resolution. (15%)