

系所組別： 生物醫學工程學系丙、丁組

考試科目： 生物化學

考試日期：0219，節次：2

※ 考生請注意：本試題 可 不可 使用計算機

1. Coenzyme play a key role in some of enzyme reaction, please explain it. (10%)
2. Describe briefly how cells synthesize polysaccharide, lipid, amino acid and nucleotide. (10%)
3. Pyruvate is a main product via glycolysis, please write three metabolite processes for pyruvate in a live cell. (10%)
4. How to play the enzyme activity of a glucose oxidase? (10%)
5. Please describe the gram positive bacteria in detail. (10%)
6. What is insulin and how does it functionize on cell membrane to transport glucose into the cell? (10%)
7. How dose the twisting into a helix contribute to the stability of the overall structure of DNA? (10%)
8. Flavin families are very important bio-compounds. Please describe their roles in our living body. (10%)
9. Please explain the mismatch repair. (10%)
10. Please describe the biochemical function of tRNA, mRNA and rRNA, respectively. (10%)