编號:

402

國立成功大學一○○學年度碩士班招生考試試題

共/頁,第/頁

系所組別: 細胞生物與解剖學研究所

考試科目: 生物化學

考試日期:0220,節次:1

※ 考生請注意:本試題 □可 ☑不可 使用計算機

- Please explain what Southern blotting (10 %), Northern blotting (10 %), and Western blotting (10 %)
 are, including their scientific basis, reagents required, and, briefly, the procedures involved.
- What is the nature of the cell membrane? Why can the cell membrane serve to isolate intracellular cytosol from the outside environment, and still remain some permeability? (20 %)
- 3. Please explain the roles of either promoters (10 %), or enhancers (10%) in regulation of gene expression.
- 4. Extracellular hormones or effectors often require binding to cell surface receptors and eliciting a cascade of intracellular signaling events to regulate different biological activities. Why are cell surface receptors required? (10%) What are the benefits to transduce signals in multiple events? (10 %) How can the numbers of the cell surface receptors be measured? (10 %)