

編號： 539 系所：口腔醫學研究所甲組

科目：分子生物學

本試題是否可以使用計算機：可使用，不可使用（請命題老師勾選）

1. What is the difference between mitochondria genome and the nuclear genome? 10%
2. What is cytoskeleton? what is the classification of cytoskeleton? What are their physiological functions in a cell? What is the role of cytoskeleton in malignant transformation? 20%
3. What is transcription factor? What is promoter? What is enhancer? How they regulate cellular function? 20%
4. What is ER stress? How cell response to ER stress? 15%
5. What is apoptosis? What is the role of apoptosis in physiological function of an organism? What is the difference between apoptosis and necrosis? What are the two major pathway in apoptosis? 20%
6. How cell regulate protein homeostasis? What is the role ubiquitin play in this functional process? What is proteasome? 15%