國立彰化師範大學九十六學年度碩士班招生考試試題

系所:生物學系 組別:乙組 科目:生物化學

請在答案紙上作答 共1頁 第1頁

	明任合亲枫工作合	六上只	护 上 只
詳	答題:		
1.	Trans-resveratrol has been shown to expend lifespan in several animal models including mouse, nema Please describe the possible trans-resveratrol mediated mechanism which may cause increasing the left (10%)		
2.	When fatty acids are being β -oxidized to produce acetyl-CoA, in what situation, the acety-CoA will be (10%)	ecome keton	e bodies.
3.	Ethanol can be converted into several molecules in human body. Please describe these conversions ste	p by step. (1	.0%)
4.	Which two hormones can stimulate muscle glycolysis? (4%) What are enzymes they activate at beginn (6%).	ning of glyco	olysis?
5.	Where does the citric acid cycle take place? (4%) What are the two primary electron acceptors of the c (6%)	citric acid cy	cle?
6.	Please compare the myoglobin and the hemoglobin. (10%)		
7.	Please describe the relationship between buffering and Henderson-Hasselbalch equation. (10%)		
8.	Please describe the Michaelis-Menten equation. (10%)		
9.	Please describe the posttranslational modification of proteins. (10%)		
10.	Please describe the posttranscriptional modification of RNA. (10%)		