編號: 168

國立成功大學106學年度碩士班招生考試試題

系 所:生物醫學工程學系

考試科目:生理學

考試日期:0213,節次:3

第	1	頁	,	共	1	頁
~3	_	_			_	$\overline{}$

*	考生請注意:本試題不可使用計算機。 請於答案卷(卡)作答,於本試題紙上作答者,不予計分。					
1.	Yoshinori Ohsumi received the 2016 Nobel Prize in Physiology or Medicine. Please describe the importance of his findings(10%)					
2.	Please compare the activation of G protein coupled receptors (GPCRs) and receptor tyrosine kinases (RTKs)?(10%)					
3.	Please describe four different gating mechanisms of channels(10%)					
4.	What are the functions of cerebrospinal fluid (CSF)?(10%)					
5.	Please compare the regulatory mechanism for hormone release of anterior and posterior pituitary(10%)					
6.	Please describe the components and structure of a sarcomere(10%)					
7.	Please list four general mechanisms by which materials are exchanged across by the capillary wall(10%)					
8.	Please explain the effect of Viagra® in the NO signaling(10%)					
9.	What are anatomic dead space and physiologic dead space of the respiratory tract?(10%)					
10	.Which three filtration barriers are existing between capillary and Bowman space?(10%)					
End of questions						