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$\frac{1}{2}$	₹ 6
1. 選擇題 (Basic Grammar) (30%) (3% each)	d in the soil around the
1. 選擇題 (Basic Grammar) (30%) (6%) (6%) (1%). Not only as a cure-all but it also protects peach trees from harmful pests if garlic is scattered.	
trees. (B) parlic does think of	
(A) garne is mought of (C) does garlic think of	in TV sets.
(2). A cockroach can live in the middle of the desert or under a kitchen sink. Recently, roaches	
(2). A cockroach can live in the industry (B) find living (B) find living	
(Δ) are joing to Δ	it on the other
(C) have been found living (D) have found ording and (D) touched (D) touched	ave those on the other
(3) Tornadoes are powerful forces of winds which can lear down are more	
aida . (O) tarrah (I) (UUCIICU	
(A) untouched (B) untouching (C)	ountain. Otherwise,
severe symptoms of altitude sickness and they away, go down the m	
(4). If Jour	
your life will be in danger. (B) have; don't go	
(A) had; didn't go (C) had had; hadn't gone (D) would have; won't go	
(C) had had, had been seen to be said.	
(5) their flippers, large sea turtles pull themselves along the sand. (C) To use (D) To using	
(A) Used (B) Using	
the sould help hold back the soil.	
(6) Kindzu was pianted (C) what	
(A) which (D) when	
forcets of Sumatra, the rafflesia is the world's largest Howel.	
(A) Found (B) Find (B) Find (B) Find (B) Whose (CD) whose	e and raintall.
(a) El Nimos are weather com-	
(8). El Ninos are weather conditions (B), which (C) that (D) whose (D) whose	
they are disturbed or are looking for food	1.
(9). Vipers with deadly poison don't usually strike they are distincted of the standard (D) as soon as	
(9). Vipers with deadly poison dead (B) unless (C) once (D) as soon as (D) a	a bunch of diamonds.
(A) not the big bird had swanow	ed a bullett of distance
	59
(10). A hunter who once shot discovered (A) discovering (B) had discovered (C) would discover (D)	
一利士吾我摘要之大意	
2. 請以中文敘述下列文章或摘要之大意	
	but also as shown
(1) (15%) The highly conserved protein actin not only functions as a critical cytoplasmic actor in cell shape and m	ovement, but also, as sain.
(1) (15%) The highly conserved protein actin not only functions as a critical cytoplasmic actor in cell shape and in the highly conserved protein actin not only functions as a critical cytoplasmic actin actin recently, has a nuclear role in regulating gene expression. The frequent companion of cytoplasmic actin recently, has a nuclear role in regulating gene expression. The frequent companion of cytoplasmic actin recently, has a nuclear role in regulating gene expression. The frequent companion of cytoplasmic actin recently, has a nuclear role in regulating gene expression. The frequent companion of cytoplasmic actin recently, has a nuclear role in regulating gene expression.	is the motor protein myosiii,
The mighty come and a regulating gene expression. The frequent companion of comes Decree Decr	ev. 22, 322 (2008)]
The highly conserved property of the frequent companion of cytophen recently, has a nuclear role in regulating gene expression. The frequent companion of cytophen recently, has a nuclear role in regulating gene expression. The frequent companion of cytophen recently, has a nuclear role in regulating gene expression. The frequent companion of cytophen recently, has a nuclear role in regulating gene expression. The frequent companion of cytophen recently, has a nuclear role in regulating gene expression. The frequent companion of cytophen recently, has a nuclear role in regulating gene expression. The frequent companion of cytophen recently, has a nuclear role in regulating gene expression. The frequent companion of cytophen recently, has a nuclear role in regulating gene expression. The frequent companion of cytophen recently, has a nuclear role in regulating gene expression. The frequent companion of cytophen recently, has a nuclear role in regulating gene expression.	
therefore, it is not surprising that a myosin isological contraction of the surprising the surprising the surprising that a myosin isological contraction of the surprising that a myosin isological contraction of the surpr	
	石建度。)
(命題請用黑色鋼筆、原子筆繕寫或電腦打字;試題字體務求清晰,並一律以正面單頁書寫,背)	田門の質が
(印度日刊流 口判学 (2)	

元智大學九十七學年度研究所碩士班

招生試題卷

系(所)别:

生物科技與工程

組別: 不分組

科技英文理解閱讀能力 科目:

用紙第 2 頁共 2 頁

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(2) (15%)

Polymer nanoparticles have been explored for more accurate delivery of drugs to improve efficacy and reduce toxicity within the body. For tissues lacking vasculature, such as articular cartilage, the challenge is to get the drug through the dense extracellular matrix (ECM) via a localized injection without removal in the synovial fluid. [From Nat. Mater. 7, 10.1038/nmat2116 (2008)]

(3) (15%)

In most eukaryotic genes, the protein-coding sequences are interrupted by noncoding introns. These introns are removed from the pre-mRNA transcript by RNA splicing, a process that provides an additional and sometimes critical layer of gene regulation. Unlike more complex organisms, few genes in the yeast Saccharomyces cerevisiae contain introns. [From Mol. Cell 27, (2007)]

(4) (25%)

How Yeast Responds to Change

(From Science Volume 319, Number 5862, Issue of 25 January 2008)

The origin of the rapid adaptive response of yeast cells to changes in environmental osmolarity has been unclear. Mettetal et al. (p. 482; see the Perspective by Lipan) now show that increases in extracellular osmolarity activate the high-osmolarity glycerol signaling pathway, which changes transcription of particular target genes. By measuring the cellular response to pulses of medium with increased ionic strength, the authors were able to develop a predictive model of the dynamics of this regulatory system. Rather than changes in gene expression, which have often been suggested to be at the core of the response to osmotic shock, the fast response is actually dominated by a nontranscriptional response that probably involves altered glycerol transport.