國	立	中:	央大	學	八-	十九	學	年度	轉	學	生	入邑	學試	題	卷				
(9		上命科學		二年級				通生物學							第 /	頁			
1.	IVIa	ny tropi cial cell:	cai pian	its circ se plan	umven ts, whi	t the los	ss of carry of	out $C4 \text{ s}$	xation ynthes	due to is are	ο οχνο	gen by	using a	50%) a four c	arbon s	synthes) metabo xylem ce	
2.	M A.	icrotubu anapł	les beco	ome sh	orter, ¡ interp	oulling o	chrom C.	atids to metaph:	the end		the spi		luring E.	telop	hase				
	C.	Not all	genes a	inding t infor re iden	of the mation	inherita encode alternati	nce of d in go	traits in	peas,	expre	ssed in B. Ea	n mode ch indi	ern lan	guage,	include	ganac f	for and	ollowing th trait. is discre	
4. T	he c A.	odons th antico	nat serv dons	e as "s B. re	top" si lease c	gnals fo odons	r the p C. no	orotein s onsense o	ynthes codons			d iino aci	id codo	ons	E.	tRNA	A code	ons	
(/hen A . C. E.	closes	the cel	ll to ma innels	ake ma in the r	l, it typi ny copi nembra viral RN	es of v	first virus RN							dividing chromo				参考用
,	lost A. O.	Cleavii	ig ine s	ource	UNA		В. т	our stage production ed gene	on of r	ecom	binant	t DNA	C	clonin	g conie	es of the	e recoi	nbinanat	即
E	ne po A. B. D.	anealir	ration o	of prim imers t	ers and the c	the DN	NA fra nentar	known a gment to y sequer	o be ar	nnlifi	ed	vhich c C. E.	prim		nsion v		NA pol	ymerase	
5	\. \.	ation ii	pulation	assum n is ve	puons ry large	are met	. Thes ndom	e are mating		ırring						iin cons		om gene s place	ration to
9. If A D	•	ulations sympat ecotypi	ric spec	iation	В.	allopa	atric s _i	species, peciation e specia	n (ocess C. r	is kno acial s	wn as peciati	on						
10. TI A	he m	najor cau greenho	use of thouse gas	hinning ses B	g of the	ozone	layer v sulfuri	was attri c acids	ibuted C. c	to hloro	flouro	carbon	s I	O. ph	ıosphor	us E	. wa	ater vapoi	
11. F A. D.	•	ts as we spore ar sporoph	ia a poi	1011		ב	5. m	how a basegaspore	e and a	i mici	le whi	ch invo	olves the	ne alter d a cor	nation ne	of gene	eration	s betwee	n a(n)
Α.	yer,	oung lea which m these ce pectins i	ives pro nay be s lls get i n the so ves imn	oduce h several mpreg eparationediate	iormor layers nated v on laye	thick de thick de vith sub or break	inhibit evelop erin, a down	The sequent the development of the development of the development of the same	elopm stem s re-repe	ent of side o	f speci f the p	alized petiole	base					a protec	tive
3. Wł A. C. E.	t t	of the f hey pos hey pos hey lack	sess an sess a c	intern: omple	al body te, one	cavity way di	called gestive	coelomat l as pseu e tract	docoel		B. udoco	they o	contair nits res	n a bon sistance	y skele e to mu	ton scle co	ntracti	on	
4. Ox A.	ygei a	n diffuse arteries	s to the B. c	e tissue ells of	s of te	rrestrial	arthro	pods thi	rough t	the	lune	ge 1	F to	achesa	and tra	ah o - 1	_		

注:背面有試題

國立中央大學八十九學年度轉學生入學試題卷

凶 工 干 犬.	入子八个	沙安小			人地心		
>。 生命科學系	二年級	科目: 普通生	勿 學	共ご	2页第2页		
15. Birds are differentA. presence of scaleD. presence of a flight	es .	n B. their lack o E. only b, c, a		presence of fe	athers		
16. Which of the fol A. hair B	lowing are chara . milk produci	cteristic of all man	mmals and not o and b D. er	of any other living adothermy E.	y vertebrates? placenta		
17. The characterist A. collagen fib	ic that makes the ers B. gel	muscle cells unicatinous mass C	que is the relativ	e abundance and yosin fibers D.	organization of keratin fibers	E. fibroblast cells	
18. The secretion of A. gastrin B		HCl is controlled insulin D. c					
19. In spite of very lo A. veins have one D. veins can be ex	way valves	B. veins have	thinner muscle l	ayers C. v	eins have thinner ela	nechanisms except stic fiber layers	
act on the respirat	the reflex control center PCO ₂	r to help keep whi	ors located in the ich of the follow 0. a and c	e aortic and caroting constant? E. b and c	id bodies in the brain	n. These chemorecepto	ors
		the cell body B			ns at once D	eceptors is	シ グシ
22. An example of a h A. insulin B		ts its action withitestosterone D			ng with cell-surface r	eceptors is	ラア
23. Which of the follo A. cells that ingest D. the inflammato	invading microl	oes B. ai		teins that kill patl	nogens C. 'immu	unoglobulin synthesis	~7
24. The ability of a ve A. somatic rearran		ate millions of dif omatic reestablish			ts DNA undergoing D.instructional varia	tion E. gene cloning	3
25. The presence of th A. birds B.				mals to resorb wand c E. b and		pertonic urine?	
問答題: 1. Please describe the a) Golgi apparatus d) Glomerlus	function of the fo b) Cytoskeleto e) Alveoli		es or structures: (doplasmic retic				
2. Term explanation: (a) lymphokines b)		c) Action potenti	al				
3. Over the years, man Whittaker's five-kir						reasingly under fire, th	1e
4. Indicate the location 1) sugars are made 2) capturing light e 3) glycolysis 4) krebs cycle in m 5) chemiosmosis (a) within mitoche (b) in bacteria	from carbon dio nergy in chlorop itochondria	xide in chloroplas		r in the plant (129	%).		
5. How do amphibians (3%)	get air into their	lung? How does	this differ from	the way other ter	restrial vertebrates ge	et air into their lungs?	

6. What are the five agents that account for the evolution change and how do these agents act on microevolution or gene pools? (14%)