## 國立中山大學 107 學年度碩士暨碩士專班招生考試試題

## 科目名稱:生態學【生科系碩士班甲組】 ※太科日依簡章規定「不可以」使用計算機(混合題)

題號: 421002

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-	- `	選擇題(單選,共30分,每題)				
1	. V	egetation patterns affect th	e ref	lectance of solar radiation, known	as its	
ł	A	. albedo.	В.	. evapotranspiration.		
	C	. Hadley index.	D.	. lapse rate.		
	E	. Milankovitch index.				
2	. W	hich of the following types o	of cha	ange occurs over generations rather	than within	
		lifetime?		_		
	A	. Acclimatization	В.	Transpiration		
	C.	. Adaptation		Equilibration		
İ		. Pubescence				
3.	. W	If a population of monkeyflo	wers l	has 500 members with 135 of genoty	ne DD 280 o	
		genotype Dd, and 85 of genotype dd, what is the frequency of the D allele?				
ľ		A. 0.135 B. 0.275 C. 0.415 D. 0.5 E. 0.55				
4				piotic feature of the environment?		
		The salinity of the soil	all ab	roote reaction of the chivironment:		
		The density of earthworms p	resen	at in the soil		
		The amount of sunlight the				
		The moisture content of the				
		The air temperature	. 3011			
5		,	te in	to aquatic systems often disrupts	th o	
10.		cosystem. This phenomenon is			LIIC	
		environmental stochasticity		•		
-		dampened oscillations.				
		resource dysgenesis.	ν.	eatrophication.		
6.			ost 1	ikely present a barrier to a popula	ation's	
		periencing the benefits of t			ation 8	
		Inbreeding		Delayed density dependence		
		Deterministic stochasticity		· · · · · · · · · · · · · · · · · · ·		
		Isolation by distance	ν.	deficite difft		
7		<u>-</u>	at are	e noxious to predators also have br	ight rod	
''				ctions as a signal to potential pre		
				armful, is an example of co		
		exploitative		cryptic	noration.	
		apomictic		aposematic		
		induced	ν. α	iposematic		
8.			anot	ther ergenism is selled s(n)		
0.		organism that lives in or or				
		parasite.		parasitoid.		
		symbiont.	ν <b>.</b> e	endoparasite.		
n		plasmodium.			1:1. (1	
9.				t against specific parasites, much	like the	
		nory cells of the vertebrate		-		
		lignins				
		scolexes	ν. m	erozoites		
	Ľ.	immunity genes		The HE nt U	16L 1-2	
			٠ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	試題 隨卷	級 四	

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共2頁第2頁

10. Assume that lions running on grass neither benefit nor are harmed by this interaction, but their activity helps the grass grow. This is an example of a

A. commensalism.

B. endosymbiosis.

C. mutualism.

D. symbiosis.

E. ammensalism.

二、 問答题(共70 分)

- 1. Defining a community by using biological or physical guidelines (15 points).
- 2. Describe the mechanisms of succession? (20 points).
- 3. Defining the alpha, beta, and gamma diversity (15 points).
- 4. Distribution and abundance of species in communities is dependent on: (20 points)