私立臺北醫學院___90__學年度第___1__學期期末考試命(試)題紙

	科	目	授課教師	考	試	B	期	#	號	姓	
公衛一	普通生	-物學	鄭可大老師	91 年 1	月	17	日第二節				
護注音	 [本試顯共 1	课。如鞍 罗	」 見 頁數 不足及空	白頁或缺印] . 應'	当場	情求補齊	,否則缺少	>部份概」	以零分計。	
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	Cytokinins		b. promote fro	•	g			•			
	Gibberelling		c. apical dorm	inance	•						
	Abscisic ac	id	d. promote se	ed germina	ition						
	Ethylene		e. delay aging	3							
Matcl	h the terms w	ith their mo	st suitable descr	riptions. (1	0%)						
	mutation		a. is the gain	or loss of	alleles	fron	a popula	ation by tl	he move	ment of in	dividu
			or gametes.					va , 1		141 C.	
	_ genetic drif	ì	b. differential interaction	l success in is with the				terent phe	notypes	resulting ir	om
	_ nonrandom	mating	c. is the selec	tion of ma	tes oth	er th	an by cha	nce.			
	gene flow		d. is a change	e in the ger	ie poo	lofa	small po	pulation d	ue to cha	ince.	
	_ natural sele	ection	e. is a change	e in an org	anism'	s DN	A that cr	eates a ne	w allele.		
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***	,•										
water	r evaporation	mom brant t	parts is called								
a. tra	anglocation	h evniratio	n c. tension	d. transnii	ration.						
4. Li	unsiovation	D. Oxpitatio	ii toiibioii	ш. ш.шр							
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	ongs to			,	•						
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a. allo	patric b. sy	mpatric c.	parapatric d.	all of the	above.						
						•	<i>a</i> .				
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The _											
		mycorrhiza	c. root hair	d. root hy	pha.						
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私立臺北醫學院___90__學年度第___1__學期期末考試命(試)題紙

系級	科目	授課教師	考	試	日	期	學	號	姓	名
公衛一	普通生物學	阮淑慧老師	91 年 1	月	. 17	日第二節				

▎請注意本試題共<u>5</u>强。如發現頁數不足及空白頁或缺印,應當場請求補齊,否則缺少部份概以零分計。

- ↑ 每張試題卷務必塡寫(學號)、(姓名)。
- 1. Structure in the living world is organized at hierarchical levels. Which of the following choices lists several of these, from least inclusive to most inclusive?
 - A) molecule, cell, organ, organ system, tissue, organism
 - B) cell, molecule, tissue, organ, organ system, organism
 - C) molecule, cell, tissue, organ system, organ, organism
 - D) molecule, cell, tissue, organ, organ system, organism
 - E) cell, molecule, organ, organ system, tissue, organism
- 2. Stratified squamous epithelium is well suited for
 - A) lining our lungs.
 - B) exchanging materials by active transport.
 - C) exchanging materials by diffusion.
 - D) secreting mucus.
 - E) lining surfaces subject to abrasion.
- 3. Connective tissue is different from the other major tissue types in that
 - A) the cells are sparsely scattered through a nonliving matrix.
 - B) it is not made up of cells.
 - C) it is found only in humans.
 - D) it has no essential function in an animal's body.
 - E) it is made up of cells.
- 4. What is the main digestive function of the pancreas?
 - A) It produces digestive enzymes and bile salts.
 - B) It produces bile.
 - C) It produces digestive enzymes and a solution rich in bicarbonate.
 - D) It aids in the control of cholesterol.
 - E) It produces bicarbonate-containing mucus.
- 5. The esophagus and trachea both open into the
 - A) posterior oral cavity.
 - B) epiglottis.
 - C) pharynx.
 - D) posterior nasal cavity.
 - E) larynx.
- 6. Which of the following is not a function of hemoglobin?
 - A) binding to carbonic acid
 - B) binding to carbon dioxide
 - C) binding to oxygen in the lungs
 - D) unloading oxygen in active tissues
 - E) binding to hydrogen ions
- 7. At any given time, what percentage of the body's capillaries have blood flowing through them?
 - A) 85 to 90% B) 40 to 50% C) 5 to 10% D) 20 to 25% E) 60 to 70%

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系	級科	B	授課教師	考	試	B	期	學	號	姓	名
公衛	一普主	通生物學	阮淑慧老師	91_年_	<u>1</u> 月_	17	日第二節				
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↑ 毎	張試題卷務必	填寫(學號)、(如	生名)。								
	n open circulate		•								
A)	blood flows or										
B)	there is no blo										
C)	there are no bl	ood vessels.						,			
D)	there is no hea	ort.									
E)	blood flows be	tween cells.									
9. Dur	ring ventricular	systole, the	valves .								
A)	AV and semile					•					
B)	semilunar	close									
C)	semilunar	open									
D)	AV	close								•	
E)	AV	open									
10. C	'omnlement nro	teins assist the im	mune response by								
A)		effects of antibio									
B)	_		thus making it eas	er for macr	ophages	to pha	gocytize th	em.			
C)	enhancing infl				- F G		3 ,				
D)	all of the abov		•								
E)	only B and C.										
•	•			·	.0						
	vnich of the foli active immuni	-	our nonspecific def	ense system	Lſ						
A) B)	passive immur	•									
C)	•	nty f erythrocytes to t	he offected site								
D)	inflammation	r eryumocytes to t	ne arrected site								
E)	cell-mediated	mmunity									
		•			. 11						
		•	first exhibit its par	ticular surfi	ace antib	ody?					
A)		encounters an anti	- .								
B)		n cell giving rise t									
C)		ory cell giving rise									
D)		ters several antige									
E)	arter it encoun	ters a single antig	en								
13. W	Which of the foll	owing cell types i	nitiates a secondar	y immune re	esponse?						

- A) immature leukocytes
- B) natural killer cells
- C) memory cells
- D) plasma cells
- E) effector cells
- 14. What is the function of the urea reabsorption that takes place in the renal collecting ducts?
 - A) It restores the correct concentration of blood urea.
 - B) The urea enters the ascending limb of the loop of Henle and from there is excreted in the urine.
 - C) It reduces the salinity of the renal medulla and thus helps regulate how much water is reabsorbed from the urine.
 - D) It increases the osmotic concentration of the interstitial fluid in the renal medulla so that more water can be extracted from the
 - It induces NaCl to move into the capillaries and thus helps maintain blood salinity.

系級	科	A	授課教師	考	試	B	期	\$	號	姓	名
公衛一	普通生	上物學	阮淑慧老師	91 年 1	月_	17	日第三節				

↑ 請注意本試題共___5_張。如發現頁數不足及空白頁或缺印,應當場請求補齊,否則缺少部份概以零分計。

- ↑ 每張試題卷務必填寫(學號)、(姓名)。
- 15. What is the hepatic portal vessel?
 - A) a large lymphatic vessel that transports substances to the kidneys for secretion into the distal tubule
 - B) the largest lymphatic vessel in the body, taking wastes to the kidneys
 - C) a large blood vessel that transports blood to the kidneys from the heart
 - D) a large blood vessel that connects the two kidneys
 - E) a large blood vessel that carries blood from the intestines to the liver
- 16. Does most of the water that is filtered into Bowman's capsule appear in the urine? From which part(s) of the nephric apparatus can water reabsorption not take place?
 - A) no; descending limb of the loop of Henle
 - B) no; ascending limb of the loop of Henle
 - C) no; collecting ducts
 - D) yes; collecting ducts
 - E) yes; descending limb of the loop of Henle
- 17. Which of the following hormones can make a person susceptible to infection when administered for too long as a drug?
 - A) mineralocorticoids
 - B) glucocorticoids
 - C) antidiuretic hormone
 - D) androgens
 - E) glucagon
- 18. A cell that is affected by a particular steroid hormone would be expected to have
 - A) enzymes that are activated or inactivated by the intracellular hormone-receptor complex.
 - B) DNA sites that interact with the hormone.
 - C) a cell-surface receptor protein that binds the hormone.
 - D) an intracellular receptor protein that binds the hormone.
 - E) enzymes that are activated or inactivated by the hormone's second messenger.
- 19. Which gland begins to shrink at puberty in humans?
 - A) adrenal cortex
 - B) pineal
 - C) parathyroid
 - D) pituitary
 - E) thymus
- 20. Menstruation
 - A) coincides with the posovulatory phase of the ovarian cycle.
 - B) involves shedding of the endometrium.
 - C) is triggered by an LH surge.
 - D) is stimulated by HCG.
 - E) is triggered by an increase in the levels of estrogen and progesterone.

系 級	科	B	授課教師	考	試	日	期	華	號	姓	名
公衛一	普通生	上物學	阮淑慧老師	91 年_	1月	17	_日第二節				

↑ 請注意本試題共<u>5</u>_强。如發現頁數不足及空白頁或缺印,應當場請求補齊,否則缺少部份概以零分計。

↑ 每張試題卷務必塡寫(學號)、(姓名)。

- 21. In human females, the ovarian cycle begins when
 - A) the hypothalamus stimulates the pituitary to increase its output of FSH and LH
 - B) the levels of progesterone drop precipitously.
 - C) the hypothalamus increases its release of FSH and LH.
 - D) the levels of estrogen reach their maximum.
 - E) the levels of FSH and LH drop precipitously.
- 22. What part of the brain sorts incoming information into categories (such as touch signals from a hand) before relaying it to the cerebral cortex?
 - A) corpus callosum
 - B) pons
 - C) hypothalamus
 - D) thalamus
 - E) hippocampus
- 23. Which, if any, of the following types of personal characteristics is not based in the cerebral cortex?
 - A) mathematical abilities
 - B) personality traits
 - C) reasoning abilities
 - D) artistic talents
 - E) All of the above are based in the cerebral cortex.
- 24. _____ is/are responsible for increased speed of impulse conduction along an axon.
 - A) IPSPs
 - B) Neurotransmitters
 - C) EPSPs
- D) A graded potential
- E) The myelin sheath
- 25. Which of the following choices lists in correct order structures through which light must pass on its way to the retina of the human eye?
 - A) cornea, aqueous humor, pupil, lens
 - B) pupil, cornea, aqueous humor, lens
 - C) lens, aqueous humor, pupil, cornea
 - D) pupil, cornea, lens, aqueous humor
 - E) cornea, pupil, aqueous humor, lens
- 26. A person whose eyeball is shorter than normal suffers from
 - A) myopia.
 - B) hyperopia.
 - C) presbyopia.
 - D) astigmatism.
 - E) visual acuity.

系	級	科	E	授課教師	考	試	B	期	掌	號	姓	名
公	衛一	普通生	上物學	阮淑慧老師	91_年_	1月	17	日第二節				

↑ 請注意本試題共 5 張。如發現頁數不足及空白頁或缺印,應當場請求補齊,否則缺少部份概以零分計。

↑ 每張試題卷務必填寫(學號)、(姓名)。

- 27. Which of the following statements is not true of the cochlea?
 - A) It is involved in both hearing and balance.
 - B) It is a coiled structure found in the inner ear.
 - C) It contains three fluid-filled canals.
 - D) It contains the organ of Corti.
 - E) Vibrations enter it through the oval window.
- 28. The most basic reason why animals need a continuous supply of oxygen is that
 - A) without it, animals cannot dispose of carbon dioxide.
 - B) it is needed to make carbon dioxide.
 - C) without it, animals cannot obtain enough energy from their food.
 - D) without it, animals cannot synthesize protein.
 - E) it is needed to carry out glycolysis.
- 29. If you were to move from sea level to high altitude, your body would respond with all of the following adaptations except a(n)
 - A) increase in the rate and depth of breathing.
 - B) increase in the number of red blood cells.
 - C) faster heart rate.
 - D) increase in the affinity of hemoglobin for oxygen.
 - E) increase in the diameter and number of capillaries.
- 30. The two major divisions of the nervous system are the
 - A) ANS and SNS.
 - B) voluntary and involuntary.
 - C) sympathetic and parasympathetic.
 - D) sensory and motor.
 - E) CNS and PNS.

系級	科	E	授課教師	考	試	日	期	華	號	姓	名
公衛一	普通生	物學	韓伯權老師	91 年	1月17	7_日第_	節				

↑ 請注意本試題共<u>2</u>張。如發現頁數不足及空白頁或缺印,應當場請求補齊,否則缺少部份概以零分計。

↑ 每張試題卷務必填寫(學號)、(姓名)。

解釋名詞

- 1. Biosphere
- 2. Habitat
- 3. Density-independent Factor
- 4. Age-structure Diagram
- 5. Gause's Competitive Exclusion Principle
- 6. Camouflage
- 7. Mutualism
- 8. Associative Learning
- 9. Dominance Hierarchy
- 10. Courtship Rituals

請作答

系級	科	目	授課教師	考	試	Ħ	期	學	號	姓	名
公衛一	普通生物	分學	韓伯德老師	91 年	1 月	17 日第	· 二節				
請注意本	試題共 2		現實數不足及	空白夏或				否則能	少部份概	以雲分計	·
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