# 臺灣綜合大學系統

112 學年度

轉學生聯合招生考試

試

題

類組:B08

科目代碼:B0891

科目名稱:動物結構與功能

※考試開始鈴響前,不得翻閱試題,並不得書寫、畫記、作答※

			類組代碼	B08	
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		成依簡章規定各考科均「不可」使用計算機	本科試題共	計 4 頁	
第-	第一部份、動物結構 (50分)(請於答案卷作答,勿寫在試題紙上)				
- 1	選擇題	(20分,2分/題):			
1.	胸腺(T	hymus) 位於動物體的哪一個部位?(A) 縱膈 (Media	stinum); (	B)心包膜腔	
	(Perica	dial cavity); (C)胸膜腔 (Pleural cavity); (D)腹腺	某腔(Peritor	neal cavity);	
	(E)骨	盤腔(Pelvic cavity)。			
2.	下列那一	-構造位於蝶骨(Sphenoid bone)的蝶鞍(Sella turcica)	內? (A)	下視丘	
	(Hypotl	nalamus); (B) 松果腺 (Pineal gland); (C) 腦下腺	(Pituitary gl	and);(D)副	
	甲狀腺(	(Parathyroid gland); (E) 甲狀腺 (Thyroid gland)。			
3.	運動員經	医常受傷斷裂的前十字韌帶(Anterior cruciate ligament)	與後十字韌	帶 (Posterior	
	cruciate l	igament),是位於哪一個關節內?(A)肩關節(Show	ılder joint);	(B) 肘關節	
	(Elbow	joint); (C) 腕關節 (Wrist joint); (D) 髖關節 (Hi	p joint); (	E)膝關節	
	(Knee j	oint) °			
4.	脊髓內的	g錐體束(Pyramidal tract of spinal cord)在何處交叉至對	f側?(A)	中腦	
		ain);(B)小腦(Cerebellum);(C)大腦(Cerebrum	n); (D) ¾	£髓(Medulla	
	oblongata	a);(E)橋腦(Pons)。		1 (1) 0	
5.	中樞神經	至系統內,下列何者之細胞膜纏繞在神經纖維外形成體單	肖(Myelin	sheath) ?	
	(A) 許	旺氐細胞(Schwann cell);(B) 微小膠細胞(Micro	glia); (C	) 寡樹突膠細胞	
		dendrocyte);(D)室管膜細胞(Ependymal cell);	(上) 星狀用	<b>多細胞</b>	
	(Astro	cytes) ·	end (T)	1	
6.	下列那一	-構造"不"通過腹股溝管(Inguinal canal)?(A)睪丸	動脈(Testic	cular artery / ,	
	(B) 輸	精管 (Vas deferens); (C) 射精管 (Ejaculatory duct)	; (D) 曼 <b></b>	<b>、</b>	
	( Pamp	iniform plexus of veins); (E) 提睪肌 (Cremaster m.)	° (D) 1 -	그는 되면	
7.	歐迪氏招	5約肌(Sphincter of Oddi)位在:(A)胃(Stomach)	;(B)十一 (E)	行版 Casaum)。	
	(Duode	num); (C)空腸 (Jejunum); (D) 迴腸 (Ileum);	(L) 自肠(	taecum) •	
8.	骨骼肌收縮時,肌漿網(Sarcoplasmic reticulum)中,何種離子會釋放至肌漿				
		plasm) 中? (A) 鈣離子 (Ca <sup>2+</sup> ); (B) 鈉離子 (Na <sup>+</sup> )	<b>,(し)ず</b> [ F	E (K),	
	(D) 鎂	離子 (Mg <sup>2+</sup> ); (E) 氣離子 (Cl <sup>-</sup> )。	A) 亚纤(]	Parallel) · (B)	
9.	口輪也別	L (Orbicularis oris m.) 肌束屬於那一種的排列方式?( L狀 (Unipennate); (C) 雙側羽毛狀 (Bipennate); (	D) 瑶 朴 ((	Circular) : (E)	
				) (2)	
10	曾敬式(	(Convergent)。 k巴液經淋巴管收集後,匯集至胸管(Thoracic duct),	晶络於何處	注入血液中?	
10.	↑ 股的液 ( A ) 土	鎖骨下靜脈(Right subclavian v.)和外頸靜脈(Externa	ıl iugular v. )	會交處; (B)	
	(A)石	類別「靜脈(Right subclavian v.)和內頸靜脈(Internal jugula	ır v.) 會交處	i: (C) 左鎖骨	
	石類月1	(Left subclavian v.)和外頸靜脈(External jugular v.)會	·交處: (D)	左鎖骨下靜脈	
	了所加(	ibclavian v.)和內頸靜脈(Internal jugular v.)會交處;	(E) 上腔靜	脈 (Superior	
	vena cav		(-)		
	vena cav	u )			
二、	填充及基	[圖題 (20分,2分/格):			
1. 肝臟的肝三合管 (Hepatic triad)包含肝門靜脈 (Hepatic portal vein)、					
	>000000	及。			
2	账 答 的	莫 ( Meninges ) 包含、		及	
2.	11E1 12 12	等三層構造。			

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	方耳朵(Ear)示意圖所指的構造				
4	Malleus	A			
Auricle	Vestibule Vestibular nerve		В		
		Cochlear nerve C			
Ear canal		C D	5		
1	B E	— D — E			
	External ear Middle ear Inner e	ear			

#### 三、簡答題(10分)

1. 請條列出與咀嚼 (Mastication) 有關的肌肉及它們的神經支配。

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第二部份:動物功	九能(50分)				
わ一叫"D'・助"D'っ 5、和人期:然下而6	为方框內選擇一個最適合使用的	字詞來填入空格以完成的	句子,每	個字話	]只
上 · 癿 · 及 · 秋 / 画 ·	卷上作答,於本試題紙上作答	者,不予計分。(每格1.	5分,共	46.5 3	<del>}</del> )
Adrenal cortex	Hypoglossal nerve	Renal medulla			
Adrenal medulla	Hypothalamus	Repolarization			
Ammonia	Liver	Residual volume			
Anmona	Loop of Henle	Rods			
Auditory	Lutein	Ruminants			
Calcitonin	Macrophages	Stomach burning			l.
Cardiac output	Mechanoreceptors	Stroke volume			
Carnivores	Medulla oblongata	Tau protein			
Cones	Menopause	Thermoreceptors			
Dark	Mitochondria	Tidal volume			
Depolarization	Neutrophils	Urea			
Dopamine	Omnivores	Uric acid			
Duodenum	Osteoblast	Vasoconstriction			
Folate	Osteoclasts	Vasodilation			
Gallbladder	Oxidative fibers	Vital capacity			
Glutamate	Pancreas	White			1
Glycolytic fibers		Amyloid beta protein	.1.		1
Golgi body	Pons	Distal convoluted tube			
Gustatory	Puberty	Glossopharyngeal ner		77	
Heartburn	Pulmonary vein	Parasympathetic nerve	ous system	11	1
Hippocampus	Rabbits	Parathyroid hormone	cyctem		1
Hyperpolarizatio	n Renal cortex	Sympathetic nervous	system		1
s ====================================	conduct coprophagy, to have	food pass though alimer	ntary can	al two	time
for obtaining more	crucial nutrients.				
·	has the greatest oxygen conte	ent and delivers oxygen to	heart, th	nen sys	stem
circulation starts.	_	9			
	_ is the amount of blood pumped	from the left ventricle du	ring each	contra	ctio
	originates in the medulla oblor	ngata, which controls the	muscles o	of the t	ongi
for speech and sw		-6,			
After complete a	full expiration, there is a volun	ne of gas remain in the	lung, wh	ich is	call
After complete a	Turi expiration, there is a voice	20 02 8			
Dila salta break	—· fats into fatty acids, and are c	oncentrated in		_ via	wat
	rats into ratty acres, and acres				
reabsorption.	s, so we fee	I hot easily while having	spicy disl	nes.	
Capsaicin activate	nd respiratory systems connec	t together in	. ,	•	whe
		together in			
regulates blood pr	essure and breathing unitedly.		nroceccin	σ	
Cerebellum plays	a vital role in balance control and nan, an eagle has higher proportion		1 14-	5·	
0. Comparing to hun	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	m of	111 ITS 176	-HO2.	

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11.	Cortisol	has an important role in the stress response, and is release	d from				
	which is	triggered by adrenocorticotropic hormone from					
12.	Enzymes	include trypsinogen and chymotrypsinogen are secreted for	r protein dig	estion, v	which are		
	activated	in					
13.	Feline ar	e, which require adequate taurine in	their diets	and mak	ke energy		
		coneogenesis.					
14.	If the lov	ver esophageal sphincter is not working properly, the food a	nd liquid mo	ve from	stomach		
	to lower	end of esophagus, and the painful symptom is called		<b>_</b> ;			
15.	In bone injury area, will dissolve the old and damaged bone cells.						
16.	In desert	animals, like camels, their are long	ger for reco	vering v	water and		
	sodium c	sodium chloride, which results in thicker and concentrated urine production.					
17.	In the inr	nate immunity, phagocytose bacteria,	produce cyto	okines, a	and repair		
	damaged						
18.		rillary tangles is a pathological hallmark of Alzheimer's	disease, wh	nich is	related to		
101	impaired	accumulation of					
19	Nitric ox	ide relaxes smooth muscle and leads to	, which is	s a mecl	nanism of		
		diovascular drugs.					
20.	Sodium	ions flow into the cell and initiate an action potentia	ıl, and this	phase	is called		
21.	Taking o	laily supplement of is recommend	led to preg	nant w	omen for		
		ng neural tube defect.					
22.	The activity of promotes erection of genitalia.						
23.	The breast muscles of a turkey are, because they are used for flight within						
	a very short duration, which is composed of						
24.	The cellular respiration produces ATP with glucose, which is taken place in						
25.	The estro	gen level is elevated in, so secondary	sex charact	eristics (	develop in		
	a female.						
26.	The most	abundant neurotransmitter in brain and central nervous syst	tem is				
27.	The nitro	genous wastes in reptiles are excreted as	with 1	nore en	ergetically		
	expensive	e, which is relatively nontoxic and insoluble in water.					
28.	When vitamin D is low, the absorption of calcium is insufficient, so is active						
		receive more calcium for the bone.					
			PROGRAM		11- AN - An		
	(、填空題:請於答案卷上寫出最適合放入空格內的數字來完成句子;於本試題紙上作答者,						
	計分。(	共 3.5 分)	loculos (1.2	e)			
1.	Each hen	noglobin is able to carry up to oxygen mo		d	re of 122		
2.	A Germa	German Shepherd has a pulse rate of 108 beats per minute, a systolic blood pressure of 132					
		nmHg, and a diastolic blood pressure of 75 mmHg; so this dog's mean arterial pressure is					
		mmHg. (2.5 分)					