編號:	386	360	國立成功大學一○○	○學年度碩士班招生考	計試試題 共4頁,第1頁
系所組		点床藥學與藥物	科技研究所甲乙組、	護理學系甲組	
考試科	目:	主理學			考試日期: 0220, 節次: 3
※ 考	生請注	意:本試題 🗌	可 囚不可 使用計算	章機	
E	ach que	estion below con	ains 4 suggested answ	vers Select the one beat	response to each question (2.5
р	oints fo	or each)		ers. Beleet the one best	response to each question (2.5
1.	The	endocrine hypotl	nalamus controls the se	ecretion of all the follow	ing EVCEDT
	a. th	yrotropin	b. somatomedin	c. corticotropin	d. luteinizing hormone
2.	Нуре	erglycemia is ind	uced by all the followi	ng hormones EXCEPT	
	а. ер	epinephrine	b. glucagons	c. aldosterone	d. thyroxine
3.	Goite	er, a general term	used to describe thyro	oid enlargement, can occ	our as a consequence of all the
	a. ioo	dine deficiency		ituitary adenoma	as a consequence of all the
	c. Gra	ves' disease	d. ex	xcessive intake of exoge	enous thyroxine
4.	Plasm	na levels of calcin		hormone upon all the following	
	a. the	s EXCEPT kidney			normone upon all the following
-			b. the small intestin	c. conc	d. the thyroid gland
5.		pigmentation of enal insufficienc thyroidism	0.60	with all the following co topic production of cor tuitary tumor	nditions EXCEPT ticotropin
6.	The su	praoptic nucleus	of the hypothalamus i	s believed to control sec	cretion of which of the following
	a antid	nes? iuretic hormone			section of which of the following
	c. prola		d. thy	owth hormone vroid-stimulating hormo	ne
7.	Gallbla	dder contraction	is controlled primarily		
i	a. insu	lin	b. secretin	c. glucagon	d. cholecystokinin
8.	Dietary	fat, after being	processed, is extruded	from the mucosal cells	of the gastrointestinal tract into
г	me lym	phatic ducts in the oglycerides	ne form of b. diglycerides		of the gastrointestinal tract into
				c. triglycerides	d. chylomicrons
a c	incre Basic	mai individual, a cased duodenal p chyme in the duo	ll the following circun ressure odenum	- Davidar Down IIIII [ali	nterogastric reflex EXCEPT on tabolites in the duodenum
b. c.	They o	cause cyclic chan produce ductal pr	re all the following effective with of ovarian follicle ges in the cervix, vaginal oliferation in the breast proliferation in the br	ects EXCEPT es na, and endometrium	and defining

(背面仍有題目,請繼續作答)

360 編號: 386 共 4 頁,第2頁 國立成功大學一○○學年度碩士班招生考試試題 系所組別: 臨床藥學與藥物科技研究所甲乙組、護理學系甲組 考試科目: 生理學 考試日期:0220, 節次:3 ※ 考生請注意:本試題 □可 ☑不可 使用計算機 11. All the statements about implantation of the zygote in the uterus are true EXCEPT that it a. occurs 6 to 7 days after fertilization b. involves infiltration of the endometrium by syncytiotrophoblast c. requires secretion of human chorinoic gonadotroopin by the corpus luteim d. follows dissolution of the zona pellucida 12. The statements about the development of the Wolffian duct system include which of the following? a. It is accompanied by regression of the Mullerian duct system b. It is completed during the fifth month of fetal life c. It occurs normally in patients with testicular feminization d. It requires the presence of estrogen 13. All the following statements about testosterone are true EXCEPT that it a. is synthesized in Leydig cells from cholesterol b. becomes less active following reduction to dihydrotestosterone c. inhibits luteinizing hormone release at the level of the hypothalamus d. is an intermediate in estrogen synthesis 14. All the following compounds have been shown to be neurotransmitters EXCEPT a. serotonin b. B-endorphin c. somadomedin d. glycine 15. Excitation-contraction coupling involves all the following events EXCEPT . a. generation of end-plated potential b. release of calcium from troponin c. formation of cross linkages between actin and myosin d. depolarization along transverse tubules 16. The blood-brain barrier is correctly described in the following statements EXCEPT a. It is formed by specialized endothelial cells of brain capillaries b. It maintains a low potassium concentration in the cerebrospinal fluid c. It is freely permeable to most antibiotics d. It is present in all areas of the brain except the hypothalamus 17. Visual accommodation involves all the following mechanisms EXCEPT a. Release of acetycholine by parasympathetic nerves b. contraction of lens ligments c. change of lens shape to a more biconvex form d. contraction of the ciliary muscle 18. The primary cause(s) of heat stroke is(are) a. excessive heat production

19. A pure tone can be characterized by

c. inability to lose heat by radiation

a. frequency and amplitude only

c. phase only

b. conductive heat gain

d. inability to sweat

b. amplitude and phase only

d. frequency, amplitude, and phase

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										考試日期:	0220 •	節次:3
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	b	rem wall	ear as mu oving clo k clothed	thing and	clothing as d walk slov	s possible t wly to incre	o reflect : ease conv	hot desert, on the rays ection that permits				
	a b c.	chol chol	inergic s	parasym _l ympathet arasympa	oathetic po ic postgan thetic pres	stganglion glionic fibe ganglionic glionic fibe	ers fibers					
	22. The "all-or-none" law applies to which of the following events? a. excitatory postsynaptic potential b. inhibitory postsynaptic potential c. presynaptic inhibition d. nerve action potential								naptic potenti	al		
	a. b. c.	is b is ex hype	locked by citatory i rpolarize	y glycine n nature s motone	urons and	is inhibitor	y in natu stsynapti	re c potential (I	PSP) in alpha	motoneur	ons	
									system control			etion
	a.	skin	1,	b. lung	S	c. kid	neys		d. body hai	r		
	25. To a.	otal re 5%	enal bloo	d flow of b. 10%	both hum	an kidneys c. 25%	is what f	raction of the	e resting cardia d. 50%	ac output?		
	26. Ti a.	ne no 25	rmal hum	an glome b. 50	erular filtra	ation rate (6 c. 125	GFR) is a	pproximatel	y (in mL/min) d. 300			
	27. M a.	ajor o sodi	letermina um	nts of pla b. hemo	asma osmo oglobin	larity inclu c. chlo	ide all the oride	following E	EXCEPT d. glucose			
	28. In a.	meta CO ₂	bolic acid	losis, the	primary a deficiency	bnormality c. bica	is irbonate e	excess	d. bicarbona	ite deficie	ncy	
	29. Pro a. c. d	olong incre issoc	ed hyper ased rena iation of	ventilatio al reabsor acid buff	n may lead ption of bi ers	d to respira icarbonate	1	, decreased	ondition may b renal excretior lasma bicarbor	e associat	ed wi	1
	b. It c. It	incre	eases by 1	he same	amount as temic bloo	systemic b	onary blo	od flow duri	ng exercise is t	rue?		
					(背面	仍有題	目,請繼	續作答)				

360 編號: 386 共一頁,第4頁 國立成功大學一○○學年度碩士班招生考試試題 系所組別: 臨床藥學與藥物科技研究所甲乙組、護理學系甲組 考試科目: 生理學 考試日期:0220:節次:3 ※ 考生請注意:本試題 □可 叼不可 使用計算機 31. In the airway of a normal adult, the dead space is approximately what percent of the tidal volume? b. 10% c. 30% d. 50% 32. In a normal respiratory cycle, the volume of inspired air does not equal a. vital capacity b. the tidal volume c. approximately 500 ml d. the inspiratory capacity minus the inspiratory reserve volume 33. A spirometer can be used to measure a. tidal volume b. residual volume c. functional residual capacity d. pulmonary artery pressure 34. The total quantity of air that can be expelled from the lungs following a maximal inspiration is a. tidal volume b. vital capacity c. total capacity d. functional residual capacity 35. Citrate is a useful anticoagulant because of its ability to a. bind factor XII b. bind vitamin K c. chelate calcium d. be slowly metabolized 36. Blood pressure increases and heart rate decreases in response to a. exercise b. increased body temperature c. exposure to high altitude d. increased intracranial pressure 37. An average man at rest has a stoke volume that is a. greater from the left ventricle than from the right ventricle b. equal to the cardiac output divided by the heart rate c. independent of body surface area d. 100 to 120 mL 38. In heart failure that is a. inadequate cardiac output b. increased tissue blood flow c. lowered venous pressure d. adequate fluid tissue exchange 39. Under resting conditions, the cardiac output of humans would be closed to a. 1.0 L/min b. 5.0 L/min c. 10.0 L/min d. 15.0 L/min 40. The pulse pressure is lowest in the

c. capillaries

d. femoral artery

a. aorta

b. arterioles