編號:

379

國立成功大學一○一學年度碩士班招生考試試題

共 2頁,第/頁

系所組別: 細胞生物與解剖學研究所

考試科目: 生理學

, 考試日期:0226、節次:2

I. Multiple Choices, there is only one correct answer. Total 80 points

1.	Which of the	following is	the physiological	gical function	of estrogen in	menstrual cycle?

A. stimulate ovulation

B. stimulate proliferation of endometrium

C. stimulate decidual changes

D. fertilized egg implantation

2. Which of the following is not regulated by cerebral cortex?

A. language comprehension

B. spacial recognition

C. voluntary movement

D. respiration, circulation and digestion

3. Which part of brain is not protected by blood brain barrier (BBB)?

A. midbrain

B. anterior pituitary gland

C. posterior pituitary gland

D. medulla

4. Stress activates which of the following endocrine axis?

A. hypothalamus-pituitary gland-testis

B. hypothalamus-pituitary gland-ovary

C. hypothalamus-pituitary gland-thyroid

D. hypothalamus-pituitary gland-adrenal cortex

5. Which of the following statement about long-term potentiation is not correct?

A. is important in learn and memory

B. enhances synaptic transmission

C. is important in short-term memory

D. causes enlarged action potential amplitude

6. Intrinsic factor secreted by parietal cell helps absorption of

A. folic acid

B. iron

C. vitamin B12

D. carbohydrate

7. Which of the following is the function of parasympathetic never?

A. causes increased heart rate

B. causes enlarged pupil

C. causes increased blood sugar

D. causes increased gastrointestinal movement

8. Which of the following hormone secretion is less likely affected by reduced extracellular fluid volume?

A. vasopressin

B. progesterone

C. estrogen

D. aldosterone

9. Testosterone is secreted by

A. leydig cells

B. epididymis

C. sertoli cells

D. seminal vesicle

(背面仍有題目,請繼續作答)

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*			
10 Blood triglyceride is transp	orted by (1) chylomics	on; (2) VLDL; (3) LDL; (4) HDL	
A. 1, 3 B. 1, 2	C. 2, 3	D. 2, 4	
11. Majority of bile salt secrete	,	·	
	num C. ileum	D. sigmoid colon	
12. Which of the following is n	ot characteristic for an	antacis?	
A. programmed cell death	_	B. nuclear fragmentation	
C. accompanied with inflan		D. chromatin condensation	
•		· · · · · · · · · · · · · · · · · · ·	
13. Which of the following abo	ut the function of glyca	agon is not correct?	
A. gluconeogenesis B. g	lycogenolysis C. lipo	olysis D. reduce insulin secretion	!
14. Thalamus is not involved in	which of the followin	g sensory pathway?	
A. pain B. vision	C. touch D. tas	•	
15. Which of the following is the	•		
A. neuroendocrine control	B. short-term mer	•	
C. sensory integration	D. planning volu	ntary movement	
16. Hyperventilation may cause	;		
A. respiratory alkalosis	B. metabolic acidosis		
C. respiratory acidosis	D. metabolic alkalosis	s	
II. Briefly describe the source	and function of the f	following hormones (20 points)	
1. Calcitonin	2. Human chori	ionic gonadotrophin (hCG)	

3. Adrenocorticotropic hormone (ACTH) 4. oxytocin