

請按照題號順序作答，免抄題目，答案需寫在答案卷上。

1. Many endocrine glands produce multiple hormones. Choose *two hormones* from column B that are secreted by each gland listed in column A. (20%)

Column A		Column B
_____	_____	(a) Antidiuretic hormone
_____	_____	(b) Calcitonin
_____	_____	(c) Cortisol
_____	_____	(d) Estrogen
_____	_____	(e) Glucagon
_____	_____	(f) Insulin
		(g) Norepinephrine
		(h) Oxytocin
		(i) Progesterone
		(j) Thyroid hormone

2. Please compare the paired terms. (40%)

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|-----------------------------------|--------------------------------|
| A. Euchromatin vs Heterochromatin | B. Endoskeleton vs Exoskeleton |
| C. Rotifera vs Nematoda | D. Cilia vs Flagella |
| E. Gametes vs Zygotes | F. Axon vs Dendrites |
| G. Nucleus vs Ganglion | H. RBC vs WBC |
| I. Brachiopoda vs Echinodermata | J. White matter vs Gray matter |

3. Please explain why cardiovascular diseases are the leading cause of death in the United States & most other developing nations. (10%)

4. List & describe briefly the similarities & dissimilarities for the five immunoglobulins (Ig). (10%)

5. Please explain how the nervous system & hormones regulate kidney functions? (10%)

6. Define the biological magnification & greenhouse effect. (10%)