

本試題是否可以使用計算機：可使用，不可使用（請命題老師勾選）

附註：請按照題號依序作答，免抄題。

1. Briefly define what they are and what function they provide for cells. (20%)
  - A. Mitochondria
  - B. Lysosome
  - C. Chloroplast
  - D. Peroxisome
2. How do the cytoskeleton “know to direct” in response to cell movements? (10%)
3. List some proteins involved in neural induction of the gastrula. (10%)
4. Please compare and contrast the mechanism and application between transmission and scanning electron microscopy. (10%)
5. Explain its pathogenic mechanism and symptom of mad cow disease. (10%)
6. What is hypothalamic regulation of the autonomic activity? (10%)
7. Define carcinogen, ecologic pyramids, eutrophication, and mutualism. (20%)
8. Match the hormone with the primary agent that stimulates its secretion. (10%)

A. ACTH	(a) ACTH
B. Corticosteroids	(b) CRF
C. Epinephrine	(c) Growth hormone
D. Thyroxine	(d) Sympathetic nerve impulse
	(e) TSH