題號: 344 國立臺灣大學105學年度碩士班招生考試試題

科目:細胞生物學(C)

節次: 6

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Short Answer Question (10 points for each question)

- 1. How do secretory proteins translocate across the ER membrane?
- 2. What is autophagy and its role in cell fate?
- 3. How are SNARE proteins thought to bring about specific membrane fusion?
- 4. Describe the mechanism of cell migration.
- 5. (A) Define stem cells. (B) Which of the following cells are stem cells: (a) fertilized egg, (b) intestinal crypt cell, (c) granulocyte-macrophage colony-forming cell (GM-CFC)?
- 6. What is the role of mitochondria in apoptosis?
- 7. Matching cyclins and CDKs in different stages of cell cycle:

CDK	Cyclins	Functions
		Mitosis
		Entry into cell cycle S phase
		G1 entry into cell cycle

- 8. Describe what G protein-coupled receptor (CPCR) is and give one example to show its physiological significance.
- 9. Give one example to show the signal pathways within cells are coordinated to regulate cell responses.
- 10. What are the hallmarks of cancer?

試題隨卷繳回