國立成功大學 112學年度碩士班招生考試試題

編 號: 316

系 所: 臨床醫學研究所

科 目: 生命科學

日 期: 0207

節 次:第3節

備 註:不可使用計算機

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第1頁,共2頁

※ 考生請注意:本試題不可使用計算機。 請於答案卷(卡)作答,於本試題紙上作答者,不予計分。

一.選擇題 (20分,每題4分)

- 1. In analyzing the number of different bases in a DNA sample, which result would be consistent with the base-pairing rules?
- (A) A = C
- (B) A+T = G+C
- (C) A+G=C+T
- (D) A = G
- 2. A human pandemic is
- (A) a viral disease that infects all humans.
- (B) a flu that kills more than one million people.
- (C) a virus that increases in mortality rate as it spreads.
- (D) an epidemic that extends around the world.
- 3. Fat digestion yields fatty acids and glycerol. Protein digestion yields amino acids. Both digestive processes
- (A) add a water molecule to break bonds.
- (B) consume ATP.
- (C) occur inside cells in most animals
- (D) require a low pH resulting from HCl production.
- 4. Which of the following do not participate in an inflammatory response?
- (A) histamine
- (B) cytokines
- (C) B cells
- (D) Macrophages
- 5. Which of the following ions has a higher concentration inside resting mammalian neurons?
- (A) K+
- (B) Na+
- (C) CI-
- (D) Ca2+
- 二. 簡答題 (80分, 每題8分)

Please briefly define the following terms:

- 1. Long COVID
- 2. mRNA vaccine

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第2頁,共2頁

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- 3. CRISPR therapy
- 4. Single-cell sequencing
- 5. Immune escape
- 6. Metabolic syndrome
- 7. Amyloid beta
- 8. Warburg effect
- 9. Oxidative phosphorylation
- 10. Immunotherapy