

科目：營養學 系所組：營養科學系

1. Definition: (40%)
  - a. Four D's
  - b. The sunshine vitamin
  - c. Follicular hyperkeratosis
  - d. Semi-essential amino acids
  - e. Probiotics
  - f. DASH
  - g. Trans fatty acids
  - h. Phytochemicals
2. John got a car accident with significant bleeding, what is (are) the immediate response(s) of hormone(s) and the consequences in the body regarding his blood loss? (15%)
3. Please use the data from a "balance study" to evaluate the quality of a specific food protein. (15%)
4. A person eats a piece of whole wheat bread, what is happened to the carbohydrate(s) in this bread when it passes through the GI tract? (15%)
5. Anna lists her total food intake today as following: 2 cups of 2% milk, 1 orange and 1 apple, 3 vegetable exchanges, 8 bread exchanges, 6 meat exchanges (2 low-fat, 4 medium-fat) and 5 fat exchanges. Please calculate her total calorie intake and protein intake, and the percentage of calorie from each energy nutrient. (15%)

- ※ 注意：1. 考生須在「彌封答案卷」上作答。  
2. 本試題紙空白部份可當稿紙使用。  
3. 考生於作答時可否使用計算機、法典、字典或其他資料或工具，以簡章之規定為準。