

National University of Lesotho

Faculty of Health Sciences

Department of Nutrition

End of Second Semester Examinations

NUT 4307 Drug- Nutrient Interactions

Supplementary Examination

Marks 100

Time: 3hours

Instructions: Answer all Questions

Question 1

- i. Define the following terminologies **(2 marks each)**
- a. Bioavailability
 - b. Half life
 - c. Pharmacodynamics
 - d. Pharmacogenomics
 - e. Food-drug interactions
- ii. Mention the routes of drug administration **(5 marks)**
- iii. State any five people who may be affected by drug-nutrient interactions. **(5 marks)**

Question 2

- i. List all the factors that affects metabolism /biotransformation of drugs. **(10 marks)**
- ii. Explain the side effects of drugs that affects the nutritional status of a patient. **(10 marks)**
- Total (20 marks)**

Question 3

- a. Explain **five (5)** factors that affect the rate and extent of drug distribution. **(5 marks)**
- b. With **three (3)** suitable examples, explain any known nutrition effect on drug in terms of absorption. **(3 marks)**
- c. With **three (3)** suitable examples, explain any known nutrition effect on drug in terms of metabolism. **(3 marks)**
- d. Explain the malnutrition effect on drugs. **(3 marks)**
- e. Explain elimination of drugs and mention factors that affect it. **(6 marks)**
- Total (20 marks)**

Question 4

- a. What is enteral nutrition support? **(5 marks)**
- b. Explain the **four (4)** categories of enteral formulas. **(8 marks)**
- c. State drug nutrient effect that affect malnutrition. **(7marks)**
- Total (20 marks)**

Question 5

- a. Explain the benefit of minimizing drug nutrient interactions. **(10 marks)**
- b. Outline how you would minimize drug nutrient interactions. **(10 marks)**
- Total (20 Marks)**