

NATIONAL UNIVERSITY OF LESOTHO
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF NUTRITION
DRUG-NUTRIENT INTERACTIONS-NUT4307
SEMESTER II EXAMINATIONS

MAY 2023

TIME: 3HRS

MARKS 100

Instructions:

Answer all questions.

Question 1

- i. Explain the routes of drug administrations. (5 marks)
- ii. Tabulate the advantages and disadvantages of these routes. (5 marks)
- iii. Explain the term hepatic pass effect. (5 marks)
- iv. Mention five people who are likely to be affected by drug-nutrient interactions. (5 marks)

Total: 20 marks

Question 2

- i. Explain any five (5) factors that affect the metabolism /biotransformation of drugs. (10 marks)
- ii. Describe the side effects of drugs that affect the nutritional status of a patient. (10 marks)

Total: 20 marks

Question 3

- i. Explain **five (5)** factors that affect the rate and extent of drug distribution. (5 marks)
- ii. With **three (3)** suitable examples, explain any known drug effect on nutrition in terms of absorption. (3 marks)
- iii. With **three (3)** suitable examples, explain any known drug effect on nutrition in terms of metabolism. (3 marks)
- iv. Explain the term Pharmacodynamics. (3 marks)
- v. Explain the elimination of drugs and mention factors that affect it. (6 marks)

Total: 20 marks

Question 4

- i. What is enteral nutrition support? (3 marks)
- ii. Briefly explain the **four (4)** categories of enteral formulas. (8 marks)
- iii. Explain the role of **cytochrome P450** in drug and nutrient metabolism. (5marks)
- iv. Mention any four (4) benefits of minimizing drug-nutrient interactions. (4marks)

Total: 20 marks

Question 5

- i. Briefly explain the term complementary and alternative medicine (5 marks)
- ii. Mention any **three (3)** herbal products and their adverse effects on drug interaction. (6marks)
- iii. Describe parenteral nutrition and state any **three (3)** conditions under which they can be administered. (6 marks)
- iv. What is the effect of milk intake on tetracycline? (3 marks)

Total: 20 marks