



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## University Examinations 2015/2016

FOURTH YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF  
BACHELOR OF SCIENCE IN FOOD SCIENCE AND NUTRITION

**AFN 3478: PHARMACOLOGY IN MEDICAL NUTRITION THERAPY**

**DATE: NOVEMBER 2015**

**TIME: 2 HOURS**

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**INSTRUCTIONS:** Answer question *one* and any other *two* questions

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### QUESTION ONE (30 MARKS)

- a) Define the following:
- (i) Pharmacotherapy
  - (ii) Mechanism of action.
  - (iii) Biotransport of drug.
  - (iv) Toxicology.
  - (v) Drug information. (5 Marks)
- b) Explain steps taken to avoid drug cumulation. (4 Marks)
- c) Briefly discuss specialized transport of drugs through the membrane. (6 Marks)
- d) Briefly describe the measures taken to hinder the absorption of the poison from gut. (6 Marks)
- e) List the sources of drugs. (6 Marks)
- f) State the disadvantages of primary literature sources of drugs. (3 Marks)

**QUESTION TWO (20 MARKS)**

- a) List any three examples of cardiovascular drugs. (3 Marks)
- b) Explain the phenomena that courses nutrient drug interaction. (3 Marks)
- c) List four basic types of word parts used to create complex medical terms. (4 Marks)
- d) Briefly explain the factors determining the rate of distribution of drugs. (10 Marks)

**QUESTION THREE (20 MARKS)**

- a) Explain how drugs alter nutrient absorption. (4 Marks)
- b) Discuss how dosage forms effect drug absorption and bioavailability. (6 Marks)
- c) Discuss routes of drug administration. (10 Marks)

**QUESTION FOUR (20 MARKS)**

Discuss the factors that modify the dosage and action of drugs. (20 Marks)