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**University Examinations 2014/2015**

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: APRIL 2015 TIME: 2 HOURS**

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

**QUESTION ONE (30 MARKS)**

1. Define the following:
2. Drugs
3. Pharmacokinetics
4. Toxicology
5. Pharmacodynamics
6. Intravenous drugs (5 Marks)
7. Describe the advantages and disadvantages of administration of drugs through the oral route (5 Marks)
8. Describe the difference between:
9. Simple diffusion versus filtration (4 Marks)
10. Facilitated diffusion versus active transport (4 Marks)
11. Explain the sources of drug information (6 Marks)
12. Discuss the importance of targeting (6 Marks)

**QUESTION TWO (20 MARKS)**

1. Briefly describe the physic-chemical properties of drugs that affects its bioavailability

(10 Marks)

1. Discuss renal excretion (10 Marks)

**QUESTION THREE (20 MARKS)**

1. Briefly describe therapeutic foods, their characteristics and when they are used (6 Marks)
2. What are the important factors that influence the effect of drug (14 Marks)

**QUESTION FOUR (20 MARKS)**

Briefly discuss:

1. Pharmaeokinetic drug interactions (10 Marks)
2. Adverse drug effects in human (10 Marks)