Module Title: Pharmacology

Module Code: CHEM8005

School: School of Science

Programme Title: Bachelor of Science (Honours) in Herbal Science

Programme Code: SHERB_8_Y3

External Examiner(s): Prof. E. Williamson, Dr. D. Clare
Internal Examiner(s): Dr. H. McGlynn

Instructions: Answer QUESTION 1 and TWO others

Duration: 2 hours

Sitting: Winter 2009

Requirements for this examination:

Note to Candidates: Please check the Programme Title and the Module Title to ensure that you have received the correct examination paper. If in doubt please contact an Invigilator.
Q1. Describe in detail and discuss the clinical relevance of the following:

(a) Time Zero Concentration of a drug.
(b) The half life of a drug
(c) The elimination rate constant of a drug
(d) The volume of distribution of a drug

Q2. Discuss the use and importance of mathematical modelling to elucidate the pharmacokinetics of an untested drug, in particular the use of single compartment models.

Q3. Describe in detail the pharmacology of cholinergic neurotransmission

Q4. Describe in detail the drug metabolising enzymes.

Q5. Discuss the factors that can alter the rates of metabolism of a drug.

Q6. Discuss in detail the pharmacology of addiction.