

**CORK INSTITUTE OF TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ**

Semester 1 Examinations 2010/2011

Module Title: Pharmacognosy

Module Code: CHEO8002

School: Science

Programme Title: B.Sc. (Honours) in Herbal Science

Programme Code: CR_SHERB_8_Y4

External Examiner(s): Prof. Elisabeth Williamson & Dr. J Green
Internal Examiner(s): Germain Levieille

Instructions: Answer any 4 of the 5 questions asked. Each question carries a equal mark weighing of 25%. Please state clearly the questions addressed in your paper.

Duration: 2 hours

Sitting: Winter 2010

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. Discuss the effects of growing conditions in the optimisation of metabolite profiles in view of phenotypical expression of metabolic pathways.**
- Q2. Comment on how the conditions of harvest or collection of medicinal plants and of plant identification impact on the quality of drug obtained from these plants.**
- Q3. a) Discuss the effect of post harvesting treatments on drug quality and how the preservation methods affect the metabolite profiles of plant biomass.
b) Deteriorations of drugs can occur during storage, detail the main cause of deterioration and how they could be prevented to maintain optimum quality.**
- Q4. What is the basic chemical types of saponins? Elaborate on their chemical and biological properties and applications.**
- Q5. Discuss the different types of tannins, their chemical characterisation, their uses and applications.**