

**CORK INSTITUTE OF TECHNOLOGY**  
**INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ**

**Semester 2 Examinations 2011/12**

**Module Title:     Herbal Pharmacy**

**Module Code:**            CHEO8001

**School:**                    Science

**Programme Title:**        BSc (Hons) Herbal Science

**Programme Code:**        SHERB\_8\_Y4

**External Examiner(s):**   Dr J. Green

**Internal Examiner(s):**   Ms Anna-Maria Keaveney

**Instructions:**              Answer **two** out of three questions  
All questions have equal marks (50 marks each)

**Duration:**                 2 hours

**Sitting:**                    Spring 2012

**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.

1. 'At the moment there is only limited guidance relating to selection and quality requirements for markers. As such the choice and quality documentation provided on markers varies between applicants/manufacturers, even for very similar products' ... Reflection paper on markers used for quantitative and qualitative analysis of Herbal Medicinal Products and Traditional Herbal Medicinal Products

Critically discuss the above statement in terms of herbal medicinal substances, preparations and products, EMEA scientific guidelines, discussions and research findings.

2. Critically evaluate the issues relevant to quality and the starting plant material in terms of registration of a herbal medicinal product under the Traditional Herbal Medicinal Products Directive. Refer in your answer to the EMEA guidelines, discussions and research findings.
3. In terms of a specific herbal substance, preparation and product critically discuss the safety issues relevant to each stage of in-process and manufacturing.

In relation to this question:

- 1) Be specific in respect of the substance, preparation and product under discussion
- 2) Be specific in relation to the in-process and manufacturing steps for the specific substance, preparation and product
- 3) Reference should be made to the EMEA guidelines, discussions and scientific findings.