

**CORK INSTITUTE OF TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ**

Autumn Examinations 2011

Module Title: Applied Biotechnology (CA)

Module Code: BIOT7001

School: Biological Science

Programme Title: Bachelor of Science (Honours) in Pharmaceutical Biotechnology – Year 2
Bachelor of Science in Applied Bioscience & Biotechnology – Year 3

Programmes Code: SPHBI_8_Y2
SBIBI_7_Y3

External Examiner(s): Dr Jerry Bird, Dr Don Faller
Internal Examiner(s): Dr Jim O'Mahony, Mr Chris Johnston

Instructions: Answer any 3 questions below. All questions carry equal marks.

Duration: 2 Hours

Sitting: Autumn 2011

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.
If in doubt please contact an Invigilator.

- Q1. Explain the concept of high throughput screening from the perspective of small molecule discovery.
- Q2. Write a detailed account of cellular protein production and folding. In your answer make specific reference to diseases of protein folding.
- Q3. Discuss the importance of vaccines and vaccination strategies in terms of a modern therapeutic intervention.
- Q4. Write a detailed account of glycosylation and in particular outline its relevance in terms of "plantibody" production.
- Q5. Write an essay on the following title "Transgenic animals and their usefulness in biotechnology".