

CORK INSTITUTE OF TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ

Autumn Examination 2008/09

Module Title: Analytical Microbiology

Module Code: BIOM 7001

School: Science

Programme Title: Bachelor of Science in Applied Bioscience & Biotechnology – Stage 3
 Bachelor of Science in Analytical & Pharmaceutical Chemistry – Stage 3

Programme Code: SBIBI_7_Y3, SCHEM_7_Y3

External Examiner(s): Dr Don Faller

Internal Examiner(s): Dr Roy Sleator, Dr Siobhan O' Sullivan

Instructions: Answer 3 questions, one from section A, one from Section B, and the remaining question from either A or B. Use separate exam books for each section. Each question carries equal marks.

Duration: 2 Hours

Sitting: Autumn 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.

Section A

- Q1. Define what is meant by **cGMP** and discuss the factors which affect the microbiological quality of a finished product with particular emphasis on **cleanroom technology**.
- Q2. Outline the most common methods of bacterial enumeration with respect to direct counts and estimates of bacterial cell number.

Section B

- Q3. List four different types of vaccines and discuss the properties of each.
- Q4. Discuss the advantages of nucleic acid probes in the diagnosis of disease.