

**CORK INSTITUTE OF TECHNOLOGY  
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ**

**Autumn Examinations 2011**

**Module Title:     Pharmaceutical Microbiology**

**Module Code:**           BIOM8002

**School:**                 Science & Informatics

**Programme Title:**       Bachelor of Science (Hons) in Nutrition & Health Science - Award

**Programme Code:**       SNHSC\_8\_Y4

**External Examiner(s):**   Dr Alison Gallagher

**Internal Examiner(s):**   Dr Deirdre Gilroy

**Instructions:**            Answer THREE questions

**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 paper.  
If in doubt please contact an Invigilator.

**Q1.** Describe the mode of action of *four* classes of antibiotics. (20 marks)

**Q2.** Discuss antibiotic resistance mechanisms found in bacteria. (20 marks)

**Q3.** Discuss bacterial quorum sensing. (20 marks)

**Q4.** Discuss methods used for testing disinfectants in the laboratory. (20 marks)

**Q5.** Write notes on **two** of the following antimicrobial agents;

- Antiviral
- Antiprotozoan
- Antifungal

(20 marks)