

CORK INSTITUTE OF TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ

Autumn Examinations 2011

Module Title: Environmental Science (CA)

Module Code: ENVI6001

School: Biological Science

Programme Title(s): Bachelor of Science in Applied Biosciences & Biotechnology – Year 2
Bachelor of Science in Biomedical Science – Year 2

Programmes Code(s): SBIOS_7_Y2
SBMSC_7_Y2

External Examiner(s): Dr Don Faller

Internal Examiner(s): Dr Olivia Cashman

Instructions: Answer ALL questions

Duration: 1 Hour

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. Name 5 Effects of Global warming. (5 Marks)
- Q2. What are the consequences associated with the melting of the polar ice caps? (4 Marks)
- Q3. Name 8 sources of water pollution. (8 Marks)
- Q4. What is ecological pollution (4 Marks)
- Q5. What is Artificial Eutrophication and how can it be tested for in the laboratory. (6 Marks)
- Q6. What percentage of water on the planet is fresh water. (2 Marks)
- 1% 3% 5% 20%
- Q7. Name 4 unique features of estuaries. (6 Marks)
- Q8. The health of rivers and lakes can be monitored by the presence/absence or abundance of some organisms. Name 3 organisms whose presence/absence indicates no pollution and 3 organisms whose presence indicates pollution. (10 Marks)
- Q9. Name the processes involved in waste water treatment and discuss one in detail. (6 Marks)
- Q10. Name the three ways in which solid waste is managed? (3 Marks)
- Q11. Answer one of the following, using techniques carried out in laboratory sessions.
- (a) How can the concentration of nitrites be measured in rivers?
- (b) How can the amount of dissolved oxygen be measured in rivers? (5 Marks)
- Q12. How can the amount of suspended solids be monitored in rivers and lakes by laboratory analysis? (3 Marks)
- Q13. Name the top 10 most populated countries (In-order from high to low)? (7 Marks)
- Q14. Name problems associated with over population and growth? (3 Marks)
- Q15. What solutions can be used to stabilise population growth in developing countries? (4 Marks)
- Q16. What affects Biodiversity? (6 Marks)
- Q17. Name 6 ways in which biodiversity can be conserved. (6 Marks)
- Q18. What problems are associated with the introduction of a new plant or animal species to an environment? (3 Marks)