

**CORK INSTITUTE OF TECHNOLOGY  
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ**

**Autumn Examinations 2013**

**Module Title: Clinical Nutrition**

**Module Code:** BIOL 8001

**School:** Biological Science

**Programme Title:** Bachelor of Science in Herbal Science – Year 4  
Bachelor of Science (Honours) in Nutrition & Health Science – Year 4

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

**External Examiner(s):** Dr Julia Green, Prof Torres Sweeney  
**Internal Examiner(s):** Dr. Helena Stack

**Instructions:** Answer question 1 and two other questions.  
All questions carry equal marks.

**Duration:** 2 Hours

**Sitting:** Autumn 2013

**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.

Answer question 1 and two other questions.

**Q1.** Write short notes on the following:

- |       |   |           |
|-------|---|-----------|
| (i)   | Assessment of growth                                    | (6 marks) |
| (ii)  | Subjective Goal assessment                              | (4 marks) |
| (iii) | Metabolic syndrome                                      | (5 marks) |
| (iv)  | Acceptable macronutrient distribution ranges for adults | (3 marks) |
| (v)   | Fiber threshold (EFSA)                                  | (2 marks) |

**Q2.** Different lifecycle groups have widely differing nutrient needs. Critically evaluate the following:

- |      |                          |            |
|------|--------------------------|------------|
| (i)  | Periconceptual nutrition | (10 marks) |
| (ii) | Infant food allergies    | (10 marks) |

**Q3.** Critically discuss the relationship between nutrition and cardiovascular disease under the following headings:

- |       |                       |           |
|-------|-----------------------|-----------|
| (i)   | Dietary fat           | (3 marks) |
| (ii)  | Lipoproteins          | (4 marks) |
| (iii) | Hyperlipidemia        | (6 marks) |
| (iv)  | Hypertension          | (3 marks) |
| (v)   | Hyperhomocysteinaemia | (4 marks) |

**Q4.** Critically discuss the relationship between diet and cancer under the following headings:

- |      |  |            |
|------|--|------------|
| (i)  | Dietary constituents that can influence carcinogenesis | (10 marks) |
| (ii) | Pathophysiology of cancer cachexia                     | (10 marks) |