

**CORK INSTITUTE OF TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ**

Autumn Examinations 2016

Module Title: Nutraceuticals

Module Code: BIOT 7010

School: Biological Science

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

Programme Code: SNHSC_8_Y4

External Examiner(s): Dr Tom O'Connor

Internal Examiner(s): Dr Helena Stack

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

Duration: 2 Hours

Sitting: Autumn 2016

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 (Q1) and two other questions.

Q1. Write short notes on the following:

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|-------|-------------------------|-----------|
| (i) | Food for Health Ireland | (5 marks) |
| (ii) | Alimentary Health Ltd | (5 marks) |
| (iii) | Danone Ireland | (5 marks) |
| (iv) | Nestle Health Sciences | (5 marks) |

Q2. Critically evaluate the role of bioactive lipids in metabolic syndrome (syndrome X). (20 marks)

Q3. Critically evaluate the role of the gut microbiome in Irritable Bowel Disease (IBD) under the following headings:

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|-------|--|------------|
| (i) | Normal gut microbiome (healthy individual) | (4 marks) |
| (ii) | Pathogens linked with the aetiology of IBD | (4 marks) |
| (iii) | Dysbiosis | (12 marks) |

Q4. Write short notes on each of the following:

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|-------|--|-----------|
| (i) | EFSA guidelines on safety of energy drinks | (5 marks) |
| (ii) | Adiponectin | (5 marks) |
| (iii) | Conjugated Linoleic Acid (CLA) | (5 marks) |
| (iv) | ACE inhibitory peptides | (5 marks) |