

NATIONAL UNIVERSITY OF IRELAND, GALWAY

Ollscoil na hÉireann, Gaillimh

Semester 1, 2000 - 2001; resit Autumn 2002.

Second Science Examination

BIOCHEMISTRY (BI211)

External Examiner: Dr. D. Apps

Time Allowed: **Two Hours.**

Please attempt **three** of the following. All questions carry equal marks.

1. Write an essay on gluconeogenesis and its control.
2. Outline the 'dark phase' of photosynthesis.
3. Write an essay on oxidative phosphorylation.
4. Compare and contrast fibrous and globular proteins.
5. Describe the mechanism of action of chymotrypsin.
6. Describe the roles of coenzymes and prosthetic groups in the oxidation of pyruvate to acetyl CoA by the pyruvate dehydrogenase complex.