

OLLSCOIL NA hÉIREANN
NATIONAL UNIVERSITY OF IRELAND, GALWAY

SUMMER EXAMINATIONS, 2000

B.Sc. DEGREE (HONOURS)

BOTANY

Third Paper

Professor P. Gahan
Professor M.D. Guiry
Professor P.M.T. Curran
Dr M. McDonald
Dr M. Sheehy Skeffington
Dr J. Fuller

Time allowed: *Three* hours.

Answer *three* questions, *one* from Section A and *two* from Section B.

SECTION A

1. Write a **comprehensive** essay on **one** of the following topics:
 - (a) Photosynthesis in seaweeds.
 - (b) *Serpula lacrymans* and dry rot.
 - (c) Natural vegetation in Ireland. Does it exist?
 - (d) Viruses — friends or foes?
 - (e) Nature conservation and agriculture — are they compatible?

SECTION B

2. Give an account of the accumulation of radiocaesium (especially after Chernobyl) in fungi.
3. Describe the use of fungi in food fermentations with specific reference to the biotechnological production of mycoprotein.
4. Discuss the production of organic acids by immobilized filamentous fungi.