

OLLSCOIL NA hÉIREANN, GAILLIMH
NATIONAL UNIVERSITY OF IRELAND, GALWAY

SUMMER EXAMINATION 1999/2000

B.Sc. (Hons.) in Microbiology

Unit 4

Environmental Microbiology

EXTERN EXAMINER: Professor C M Brown

INTERN EXAMINER: Internal Examiners

TIME ALLOWED: 1½ hours

(INDICATE CLEARLY THE QUESTIONS ANSWERED ON THE FIRST
PAGE OF YOUR ANSWER BOOK)

Please Answer **TWO** Questions

- Q.1** "There is a growing interest in the application of fungi for the bioremediation of sites contaminated by recalcitrant organics." Discuss the application, advantages and disadvantages of using fungi for bioremediation purposes.
- Q.2** Distinguish between direct and indirect leaching processes in biomining. Discuss the current application of chemolithotrophs for the biomining of copper.
- Q.3** Write an essay on the application, advantages and disadvantages of using microorganisms (living or dead) for treatment of metal-contaminated wastewater.