UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For The Following Qualification:-

M.Sc.

ESGL2: Lighting Sources

COURSE CODE	:	**ENVSGL02**
DATE	:	**15-MAY-03**
TIME	:	**14.30**
TIME ALLOWED	:	**2 Hours**

TURN OVER

UNIVERSITY OF LONDON

MSc DEGREE IN BUILT ENVIRONMENT 2003
for Internal Students of University College London

ESGL2: Lighting sources

Answer **TWO** questions.

All questions carry equal marks. Use annotated sketches.

1. Which techniques may be used to predict the adequacy of daylight at a point in a building ? State the assumptions that are made when using such techniques.

2. How may the entry of sunlight into buildings be predicted using i) manual methods such as the stereographic sunpath diagram and ii) architectural models in an artificial sky ?

   Outline the benefits and disadvantages in allowing the entry of sunlight into buildings.

3. The lighting designer is faced with a bewildering choice of lamps. Which performance and operating characteristics of lamps are important when choosing between incandescent, low pressure discharge and high pressure discharge lamps ?

4. Which factors must be taken into account when specifying luminaires for use in regular arrays ? In your answer refer to light distribution from the luminaire, spacing criteria between fittings and the delivery of light onto important surfaces.

END OF PAPER