

**UNIVERSITY COLLEGE LONDON**

University of London

**EXAMINATION FOR INTERNAL STUDENTS**

For The Following Qualification:-

*M.Sc.*

**ESGL2: Lighting Sources**

**COURSE CODE : ENVSGLO2**

**DATE : 11-MAY-06**

**TIME : 14.30**

**TIME ALLOWED : 2 Hours**

UNIVERSITY OF LONDON

MSc DEGREE IN BUILT ENVIRONMENT 2006  
for Internal Students of University College London

ESGL2: Lighting sources (resit)

Answer **TWO** questions.

All questions carry equal marks. Use annotated sketches.

1. Developments in lamp technology are rapid. Which lamp performance and operating characteristics would you identify in assessing the usefulness of a new lamp that appears on the market?

2. Fibre optic lighting has been used successfully in the following applications:

- (i) decorative lighting to architectural facades
- (ii) lighting of a 'sky vault' on the deck of a cruise ship
- (iii) retail display case lighting.

What are the main benefits of fibre optic lighting in these applications?

3. Using representative examples, compare the handling of daylight in buildings in the work of two contemporary architects of your choice.

4. Light pipes, prismatic glazing, mirror louvres and light shelves are all forms of *redirecting* daylighting systems. Explore the reasons behind their current popularity and assess their long-term impact as daylighting elements.

END OF PAPER