

UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For The Following Qualification:–

M.Sc.

Lighting Sources

COURSE CODE : **BENVLL02**

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

BENVLL02: Lighting sources

Answer **TWO** questions.

All questions carry equal marks. Use annotated sketches.

1. The National Trust, a registered charity, is one of Europe's leading conservation bodies, protecting through ownership, historic buildings dating from the Middle Ages to modern times.

"Our care of collections is different from that of museums. We're showing contents on open display, in context, so we often need to be that more innovative and creative: we can't just put things in glass cases, which is the obvious solution to a lot of conservation problems".

Sarah Staniforth (Director of Historic Properties, National Trust)

Discuss the strategies for daylighting that are appropriate to conserve historic buildings and their contents?

2. Compare the design, construction and operating characteristics of the low pressure mercury discharge fluorescent lamp with the compact fluorescent lamp.
3. Compare the performance of the following redirecting daylighting systems in terms of the diffuse and direct components of daylight:
 - a) the light pipe
 - b) prismatic glazing
 - c) the lightshelf.

TURN OVER

BENVLL02: Lighting sources *continued*

4. Devise an annotated checklist of principal lamp characteristics to assist the designer in selecting suitable lamps for a new lighting installation.

END OF PAPER