

UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For The Following Qualification:–

M.Sc.

Lighting Practice

COURSE CODE : **BENVLL05**

DATE : **03-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

BENVLL05: Lighting practice

Answer **TWO** questions.

All questions carry equal marks. Use annotated sketches.

1. The *Code for Lighting*, published by the Society of Light & Lighting (SLL), suggests that lighting requirements are determined by satisfying the need for visual comfort, visual performance and safety. Outline the main parameters that determine the luminous environment and indicate the scope of the guidance contained in the Code concerning these parameters.

2. The stages of architectural lighting design are:
 - a) project analysis
 - b) project development
 - c) practical planning.

Describe the typical activities undertaken by the lighting specialist during these stages.

3. Describe the electrical, mechanical and thermal tests that the following luminaires would undergo to comply with BS EN 60 598 *Luminaires*:
 - a) Interior Luminaire: linear fluorescent (pendant-mounted direct/indirect luminaire with louvre)
 - b) Exterior Luminaire: floodlighting fitting (surface mounted reflector type with high pressure sodium or metal halide lamps).

4. Outline the stages undertaken in deriving the utilisation factor for a luminaire in the procedure described in EN 13032-2 *Light and Lighting – Measurement and Presentation of Photometric Data of Lamps and Luminaires*.

END OF PAPER