



TECHNICAL UNIVERSITY OF MOMBASA
**Faculty of Engineering &
Technology**

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN ARCHITECTURE (DA 12J)

EAR 2203: LIGHTING DESIGN

END OF SEMESTER EXAMINATION

SERIES: APRIL 2013

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions. Answer any **THREE** questions
Maximum marks for each part of a question are as shown
This paper consists of **TWO** printed pages

Question One

Explain overcast sky illuminations **(20 marks)**

Question Two

Explain daylight factor **(20 marks)**

Question Three

Explain BRS sky protracted **(20 marks)**

Question Four

Explain direct sky illumination **(20 marks)**

Question Five

Explain the following as applied to lighting design for building:

- (i) Solar heat gain
- (ii)** Sun's movement **(20 marks)**