



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
DIPLOMA IN ARCHITECTURE (DA 12M)

EAR 2205: THERMAL 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 question **ONE** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One (Compulsory)

Explain **FOUR** major factors that applies to thermal comfort. **(20 marks)**

Question Two

Explain thermal properties and building works. **(20 marks)**

Question Three

Explain construction Planning for heat balance. **(20 marks)**

Question Four

Explain thermal insulation. **(20 marks)**

Question Five

Explain:

a) Heat transfer. **(10 marks)**

b) Surface resistances. **(10 marks)**