



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN ARCHITECTURE (DARC 13S)

EBC 2230: BUILDING TECHNOLOGY & SERVICES II

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2014

TIME ALLOWED: 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 of the **FIVE** questions

All questions carry equal marks

Maximum marks for each part of a question are as shown

Use neat, large and well labeled diagrams where required.

This paper consists of **TWO** printed pages

Question One

- a) Define a “fireplace” (2 marks)
- b) Describe THREE types of “fireplaces” (6 marks)
- c) State FOUR advantages of “framed” structures. (4 marks)
- d) Briefly describe FOUR types of “ceilings” (8 marks)

Question Two

- a) State FOUR causes of chimney failure (4 marks)
- b) Outline the uses of a “fireplace” (6 marks)
- c) Outline the factors that determine the height of a chimney (8 marks)
- d) Define a flue (2 marks)

Question Three

- a) Define a “floor” (2 marks)
- b) State SIX purposes for special floor structures. (6 marks)
- c) Using illustrations, describe a steel chimney shaft (10 marks)
- d) What is “floor covering” (2 marks)

Question Four

- a) Explain “Cladding” (4 marks)
- b) Briefly describe the loads which are normally imposed on the curtain wall. (12 marks)
- c) What are “Louvers” used for? (4 marks)

Question Five

- a) State the services provided by “Subfloors”. (7 marks)
- b) Briefly discuss the health effects associated with “fireplaces” (8 marks)
- c) Explain the work of “Guys” in chimney construction (5 marks)