



TECHNICAL UNIVERSITY OF MOMBASA

**Faculty of Engineering & Technology
in Conjunction with
Kenya Institute of Highways and
Building & Technology (KIHBT)**

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

HIGHER DIPLOMA IN CONSTRUCTION (BUILDING ECONOMICS OPTION)

EBE 3307: CONCRETE & TIMBER TECHNOLOGY IV

END OF SEMESTER EXAMINATION

SERIES: APRIL 2015

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
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) What is curing? (2 marks)
- b) Explain how curing process take place in concrete. (6 marks)
- c) Outline the SIX methods of curing (12 marks)

Question Two

- a) What are termites? (4 marks)
- b) Outline the process of timber treatment (6 marks)
- c) Give TWO types of termite treatment each giving the used preservative (2 marks)
- d) Name EIGHT types of solid sections timber products (8 marks)

Question Three

- a) What is plain concrete (2 marks)
- b) Give FOUR uses of plain concrete (4 marks)
- c) What is pre-stressed concrete (2 marks)
- d) Explain how reinforced concrete is made (8 marks)
- e) What is reinforced concrete (2 marks)

Question Four

- a) What is batten board (4 marks)
- b) Outline FOUR uses of plywood (4 marks)
- c) Explain how block board is made (8 marks)
- d) Give FOUR uses of block board (4 marks)

Question Five

- a) How is termite control done (4 marks)
- b) Outline termite control treatment (6 marks)
- c) Outline the procedure of preparation of precast products (10 marks)