



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT) Faculty of Engineering and Technology

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING CERTIFICATE IN BUILDING CONSTRUCTION I

EBC 1101: CONSTRUCTION MATERIAL I SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: MAY/JUNE 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet
- Scientific calculator

This paper consists of **FIVE** questions Answer any **THREE** questions. Question **ONE** is compulsory Maximum marks for each part of a question are clearly shown This paper consists of **TWO** printed pages

Question 1 (Compulsory - 20 marks)

a) State FOUR different types of construction materials	(4 marks)
b) Outline why stones are gradually losing their universal use as a building material	(6
c) Explain the geological classification of rocks	(6 marks) (10 marks)
Question 2 (20 marks)	
a) Outline FIVE good characteristics of building stones	(10 marks)
b) Sketch FIVE forms of dressing stones	(10 marks)
Question 3 (20 marks)	
a) Explain the process of making bricks	(10 marks)
b) Outline the use of the FOUR types of bricks	(10 marks)
Question 4 (20 marks)	
a) State FOUR qualities of a good bricks for building	(10 marks)
b) Sketch FIVE defects in timber	(10 marks)
Question 5 (20 marks)	
a) Explain FOUR methods of preserving timber	(10 marks)
 b) (i) Name the FOUR types of furnaces used in forming metals (ii) Name FOUR types of non ferrous metals (iii) Differentiate stress from strain 	(10 marks)