



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT) (A Centre of Excellence)

Faculty of Engineering &

Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN BUILDING & CIVIL ENGINEERING

EBC 1119: BUILDING TECHNOLOGY IV

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: OCTOBER 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 Maximum marks for each part of a question are as shown This paper consists of TWO printed pages Question One (20 Marks)	
a) State EIGHT the functional requirements of walls.	(8 marks)
 b) (i) Briefly describe the construction of reinforced concrete walls. (ii) For 1b (i) show the arrangement of bars at: - return wall. Closing at end of wall. 	(12 marks)
Question Two (20 Marks)	
a) Briefly describe the construction of panel walling.	(8 marks)
b) With the aid of sketches, describe the construction of plasterboard partition.	(12 marks)
Question Three (20 Marks)	
a) With the aid of a sketch, describe dry lining partition (timber stud partitions)	(10 marks)
 b) With the aid of sketches describe the following methods of strutting timber joists of floors. i) Solid strut ii) Herring bone strutting 	suspended timber (10 marks)
Question Four (20 Marks)	
 a) With the aid of a sketch, describe the following types of facings. i) Brick facing ii) Marble stone 	(14 marks)
b) State SIX functional requirements of formwork.	(6 marks)
Question Five (20 Marks)	
With the aid of sketches, describe the following types of form-work.	
a) Beam formworkb) Slab formwork	(10 marks) (10 marks)