



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering and Technology

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

DIPLOMA IN BUILDING & CIVIL ENGINEERING

INSTITUTIONAL BASED PROGRAMME

EBC 2208: BUILDING TECHNOLOGY II

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2011

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 question **ONE** (**COMPULSORY**) from **SECTION A** and any other **TWO** questions from **SECTION B** Maximum marks for each part of a question are clearly shown

This paper consists of TWO printed pages

SECTION A (COMPULSORY)

Question 1 (30 marks) a) With the aid of sketches, explain the following types of carpenter's second fixing Architrave Skirting (ii) Door lining (16 marks) (iii) b) With the aid of a sketch, explain the construction of a Cavity wall (6 marks) c) With the aid of a sketch, outline the working of a fireplace (8 marks) **SECTION B (Answer any TWO questions from this section)** Question 2 (20 marks) a) With the aid of a sketch, outline the fixing of a door panel to a door lining (10 marks) b) Sketch and label the parts of a Bloom base (6 marks) c) State **FOUR** advantages of Pre cast reinforced concrete units (4 marks) Question 3 (20 marks) a) With the aid of a sketch, explain the non self centering upper floor (10 marks) **b)** Sketch and label the parts of rubble polygonal wall (6 marks) c) Sketch a typical splice detail of a Pre cast concrete portal frame (10 marks) Question 4 (20 marks) a) State **FOUR** painting techniques (4 marks) b) Explain the importance of soil study in Building technology (6 marks) c) Sketch a typical splice detail of a Pre cast concrete portal frame (10 marks) Question 5 (20 marks) a) With the aid of sketches, explain the construction of a pad foundation in framed structures (12 marks) b) Define the following: Masonry wall (i) Curing (ii) (iii) Reinforced concrete Workability of concrete (8 marks) (iv)