



Machakos University College

(A Constituent College of Kenyatta University)

University Examinations 2013/2014

SCHOOL OF ENGINEERING

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

Certificate in Masonry

Theory

Date:

Time: 3 Hours

Instructions

1. This paper consists of eight questions
2. Answer any Five Questions.
3. All questions carry equal marks

1. (a) Define formwork (2 marks)
(b) Make a neat sketch of formwork for a lintel (10 marks)
(c) Explain how the form work for a windows cill is done before being placed. (8 marks)
2. (a) Explain the methods of demolition. (12 marks)
(b) Describe how independent scaffold is installed (8 marks)
3. (a) Describe the functions of the underpinning (6 marks)
(b) Make a neat sketch of single flying shores. (10 marks)
(c) Explain how double flying shores works (4 marks)
4. (a) Define shoring and why it is done. (8 marks)
(b) Explain in deep how raking shore works. (12 marks)
5. (a) Make a neat sketch of a timber star. (10 marks)

- (b) Define the following terminologies of a stair:- (10 marks)
- (i) Staircase
 - (ii) Flight
 - (iii) Nosing
 - (iv) Riser
 - (v) Rise
6. (a) State the difference between pointing and jointing. (10 marks)
- (b) Explain the following terms plastering and facings. (10 marks)
7. (a) Explain the term dewatering (8 marks)
- (b) Make a well labeled sketch of sump method. (12 marks)
8. (a) Explain five wall finishes (10 marks)
- (b) Describe walling methods. (10 marks)