



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

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

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

EBE 3210: BUILDING TECHNOLOGY

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: FEBRUARY/MARCH 2012

TIME: 2 HOURS

Instructions to Candidates:

This paper consists of **TWO** sections **I** and **II**

Section **I** has **30** marks and section **II** has 40 marks

Attempt all questions in section **I** and only **TWO** questions from section **II**

This paper consists of **SEVEN** printed pages

SECTION I (30 MARKS)

Question 1

Take off all quantities for the substructure work shown in drawing No. 01/12S

SECTION II (Answer any TWO questions – 40 marks)

Question 2

- a) Outline the functions of the following personnel in a construction project:
- (i) Architect
 - (ii) Estimator
 - (iii) Quantity surveyor
- b) With the aid of examples, explain the following terms, in-measurements:
- (i) Consistency sums
 - (ii) Prime cost sums
 - (iii) Preliminaries
- c) Explain how the following items would be handled in costing by the estimator
- (i) Extra-over items
 - (ii) Deemed to be included items
 - (iii) Keeping the site free of surface water

Question 3

Take off all quantities for the flush door shown in drawing number 003/12 S. Flush door – Drawing No. 003/12

Question 4

- a) Take off all quantities for the drainage work shown in Drawing No. 04/12 S.

Question 5

Take off all superstructure quantities for the vehicle assembly Garage shown in drawing No. 005/QS/12