



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

HIGHER DIPLOMA IN BUILDING ECONOMICS

SPECIFICATIONS II

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*
- *Calculator*

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

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

SECTION I – (Compulsory) – 40 marks

Question 1

- a) Write a specification on excavation of vegetable soil (6 marks)
- b) Write a specification on excavation of foundation trenches (15 marks)
- c) Write a specification on hardcore filling (9 marks)
- d) Write a specification on foundation walling (10 marks)

SECTION II (Answer any *TWO* questions)

Question 2

Write a specification on vibrated reinforced concrete in foundation under the following headings:

- (i) Aggregates
- (ii) Cement
- (iii) Sand
- (iv) Water (20 marks)

Question 3

Write a specification on brick walling under the following heading

- (i) Bricks
- (ii) Mortar
- (iii) Workmanship (20 marks)

Question 4

Write a specification on well finishes under the following headings

- (i) Cement-sand plaster
- (ii) Paintwork (20 marks)

Question 5

Write a specification on the following items:

- (i) External timber door with fittings
- (ii) Timber ceiling with hardwood panels
- (iii) Terrazzo floor finish (20 marks)