



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 I

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 basement excavation commencing from stripped level and not exceeding 1.5m deep (15 marks)
- b) Write a specification on basement walling of solid concrete blocks (10 marks)
- c) Write a specification on sown softwood formwork to soffit of suspended slab (15 marks)

SECTION II (Answer any *TWO* questions – 20 Marks)

Question 2

Write a specification on vibrated reinforced concrete in suspended slab under the following headings

- a) Aggregates
- b) Cement
- c) Sand
- d) Water (20 marks)

Question 3

Write a specification on storm water drain trench with pcc slabs under the following headings

- (i) Trench headings
- (ii) Slabs
- (iii) Workmanship (20 marks)

Question 4

Write a specification on basement walling under the following headings:

- (i) Concrete blocks
- (ii) Mortar
- (iii) Workmanship (20 marks)

Question 5

Write a specification on basement floor finishes under the following headings:

- (i) Cement-sand serial
- (ii) Ceramic floor tiles (20 marks)