



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)  
*Faculty of Engineering and Technology*

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING  
**BRIDGING TO HIGHER DIPLOMA IN BUILDING & CIVIL ENGINEERING**

EBC 2223: SPECIFICATIONS  
**SPECIAL/SUPPLEMENTARY EXAMINATION**

SERIES: MAY/JUNE 2012  
**TIME: 2 HOURS**

## **Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*
- *Calculator*
- *Drawing Instruments*

This paper consists of **FIVE** questions

Answer any **THREE** questions each **20 marks**

Maximum marks for each part of a question are clearly shown

This paper consists of **TWO** printed pages

**Question 1 (20 marks)**

- a) Write specification notes on formwork to soffit of floor slab under following headings:  
i) Materials for decking  
ii) Surface preparation  
iii) Setting up and supports  
iv) Striking off (10 marks)
- b) The Slab in 1(a) above is to cast in class 25 concrete. Under appropriate headings write specifications notes on the concreting procedure. (10 marks)

**Question 2 (20 marks)**

- a) State the importance of specification writing in civil engineering construction (6 marks)
- b) Briefly describe the main components of specification writing (6 marks)
- c) Briefly describe the **FOUR** types of specifications in Civil Engineering construction (8 marks)

**Question 3 (20 marks)**

- a) Pre painted Corrugated iron sheeting are to be fixed on a timber roof truss of a newly constructed building. Write specification notes on the fixing procedure of the roofing. (10 marks)
- b) A soft board ceiling is to be fixed on sawn softwood branderling. Under appropriate headings write brief specifications for the works. (10 marks)

**Question 4 (20 marks)**

- a) State the duties of the Engineer in specification writing in the following stages of Construction  
i) Preliminary stage  
ii) Design stage  
iii) Tendering stage  
iv) Construction stage (8 marks)
- b) Write specifications notes on supply and distribution of water to site for construction process (12 marks)

**Question 5 (20 marks)**

- a) A construction block walling is to be constructed on concrete strip foundation of a proposed building. Under appropriate headings write specification note for the works. (12 marks)
- b) Hardcore filing is to be placed on a prepared over site of a proposed building. Write specification notes for carrying out the process. (8 marks)