



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

# Faculty of Engineering and Technology

# DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

# DIPLOMA IN CIVIL ENGINEERING WITH COMPUTER AIDED DESIGN DIPLOMA IN BUILDING AND CIVIL ENGINEERING

# EBC 2332 SPECIFICATIONS I

## END OF SEMESTER EXAMINATION

SERIES: AUGUST/SEPTEMBER 2011

## 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 in two sections **A** and **B**

Answer question **ONE (COMPULSORY)** from section **A** and any other **TWO** questions from section **B** 

Maximum marks for each part of a question are as shown

### **Question 1 (COMPULSORY)**

a)	State the importance of specification in civil engineering construction	(6 marks)
b)	State <b>FOUR</b> main sources of information in civil engineering specifications writing	(6 marks)
c)	Briefly describe <b>FOUR</b> forms of specifications in Civil Engineering construction	(8 marks)
d)	State the role of the following members of the building team in specification writing	

- (i) Client
- (ii) Quantity Surveyor
- (iii) Inspectorate
- (iv) Engineer
- (v) Contractor

#### SECTION B (Answer any TWO questions) – 20 MARKS

#### Question 2

- a) Briefly describe the duties of the Architect in specification writing in the following stages of Construction
  - (i) Inception stage
  - (ii) Conception stage
  - (iii) Selection stage
  - (iv) Construction stage
- b) A newly proposed site is to be fenced along the boundary defined by the surveyor's beacons. Under appropriate headings write specification notes for the works. (8 marks)

#### Question 3

a) State the various items to be considered in specifications for general concrete works

(8 marks)

(12 marks)

(12 marks)

- b) A concrete underground Tank is to be cast in reinforced concrete. Write specification notes on formwork to soffit of cover slab under the following headings:
  - (i) Materials
  - (ii) Setting up
  - (iii) Fabrication
  - (iv) Striking off

## Question 4

a) State the importance of ISO standards in civil engineering construction (8 marks)

(10 marks)

b) A cement floor screed is to be laid on a mature concrete floor slab. Write specification notes for this process under **FOUR** appropriate headings,. (12 marks)

## Question 5

- a) Write brief specification notes on site hoording under the following headings:
  - (i) Site boundary
  - (ii) Framework
  - (iii) Cladding
  - (iv) Access

(8 marks)

b) The foundation of a proposed new building is to set up using coral stone blocks. Under appropriate headings write specification notes on the setting and building up process.

(12 marks)