



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

**UNIVERSITY EXAMINATION FOR:**

DIPLOMA

EBC 2303 : SPECIFICATIONS FOR BUILDING

AND CIVIL ENGINEERING WORKS

END OF SEMESTER EXAMINATION

**SERIES:** DECEMBER 2016

**TIME:** 2 HOURS

**DATE:** Pick Date Dec 2016

## Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

- Pocket calculator

This paper consists of **FIVE** questions. Attempt any **THREE** questions.

**Do not write on the question paper.**

**Mobile phones are not allowed in the examination room.**

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## Question ONE

- a. Define the following terms
  - i) Standards
  - ii) Statutory regulations
  - iii) Specifications

**(6marks)**
- b. State any FIVE aims of specifications 

**(5marks)**
- c. Outline any THREE sources of specification information 

**(3marks)**
- d. Outline the following types of specifications
  - i. General specifications
  - ii. Project specifications
  - iii. Standard specifications

**(6marks)**

## Question TWO

Write brief specification notes for concrete works for the Afya house project on the following.

- i. Concrete materials
- ii. Materials batching
- iii. Transporting concrete
- iv. Mixing concrete
- v. Curing concrete

(20marks)

## Question THREE

Prepare specifications for the old town sewerage project on the following

- i. Sewer materials
- ii. Pipe laying
- iii. Joints and cutting of pipes
- iv. Concrete projection of pipelines
- v. Testing of pipeline

(20 marks)

## Question FOUR

- a. Prepare specifications for the following in rigid pavements
  - i. Water proofing underlay
  - ii. Placing concrete and reinforcements
  - iii. Curing of concrete pavements
- b. Briefly write specification notes for
  - i. Materials for formwork
  - ii. Dismantling formwork

(12 marks)

(8marks)

## Question FIVE

- a. Write specification notes for railway track works on
  - i. Preliminary works
  - ii. Railway track materials
  - iii. Laying of track work
- b. Prepare brief specification notes on
  - i. Roof work
  - ii. Plaster to surfaces

(12marks)

(8 marks)