



TECHNICAL UNIVERSITY OF MOMBASA

**FACULTY OF ENGINEERING AND TECHNOLOGY IN CONJUNCTION WITH KENYA
INSTITUTE OF HIGHWAYS AND BUILDING TECHNOLOGY (KIHBT)**

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

UNIVERSITY EXAMINATION FOR:

HIGHER DIPLOMA IN BUILDING ECONOMICS

EBE 3109: SITE ORGANIZATION AND ADMINISTRATION I B

END OF SEMESTER EXAMINATIONS
SERIES: OCTOBER 2016

TIME: 2 HOURS

Instruction to candidates

You should have the following for this examination

- Answer booklet
- Pocket Calculator

This paper consist of five question.

Answer any three questions of the five questions

All question carry equal marks

Maximum marks for each part of a question are as shown

This paper consist of two printed pages

QUESTION 1.

- a) Discuss any Five statutory registers and diaries commonly used in an ongoing construction development citing its importance (10 marks)
- b) Outline Five main purposes of taking photographs in a busy construction site (10 marks)

QUESTION 2.

- a) When should lifting appliances and lifting gear be examined and tested as a safety precaution or regulation (3 marks)
- b) Highlight Five instances in which a site incident/accident may be classified as a notifiable accident (5 marks)
- c) Site safety cycle activities are basically classified into Three categories, Name them and give Three activities for each category (12 marks)

QUESTION 3

- a) Define the following terms as used in construction
 - i) Scaffold
 - ii) Competent person
 - iii) Lifting appliances
 - iv) workplace
 - v) lifting gear (10 marks)
- b) Briefly discuss what a safety harness is and the safety precautions to be adhered to when using it (5 marks)
- c) What are the advantages of using ladders over scaffolds (3 marks)

QUESTION 4

- a) Outline Six safety precautions which should be observed when one is cutting and welding a piece of metal (6 marks)
- b) Name any Two types of scaffolds, highlight the main causes of accidents arising from the use of such scaffolds and the safety precautions taken (14 marks)

QUESTION 5

- a) Highlight Eight limitations of using ladders in a busy construction site (8 marks)
- b) Describe Six potential hazards a worker is likely to meet in a deep excavation (12 marks)