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BTB 362



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY SPECIAL / SUPPLEMENTARY
EXAMINATIONS
2021 / 2022 ACADEMIC YEAR**

THIRD YEAR SECOND SEMESTER EXAMINATIONS

**FOR THE DEGREE
OF
BACHELOR OF TECHNOLOGY
IN
BUILDING CONSTRUCTION**

**COURSE CODE: BTB 362
COURSE TITLE: OCCUPATIONAL SAFETY AND
HEALTH**

DATE: 5TH AUGUST 2022

TIME: 11 A.M – 1 P.M

INSTRUCTIONS:

1. This paper contains FIVE Questions
2. Answer FOUR Questions only
3. Marks for each question are indicated in the parenthesis.
4. It is in the best interest of the candidate to write legibly
5. Examination duration is 2 Hours

MMST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

QUESTION ONE **(17½ Marks)**

Describe the common hazards at a construction site and their preventive measures

QUESTION TWO **(17½ Marks)**

- a) Outline examples of engineering controls for hazards in construction industry [8 marks]
- b) Differentiate between an occupational illness and injury [4 marks]
- c) Define job hazard analysis and describe how it is conducted [5½ marks]

QUESTION THREE **(17½ Marks)**

Describe how workplace safety is regulated and enforced in building construction industry in Kenya

QUESTION FOUR **(17½ Marks)**

- a) What are administrative hazard controls? [6 marks]
- b) What are the most common crane safety hazards? [6 marks]
- c) Ranking of hazards in construction industry is necessary for risk management. Describe ranking criteria for hazards [5½ marks]

QUESTION FIVE **(17½ Marks)**

- a) Onyango was employed by Suwa Construction Company limited as a steel fabricator. During the course of performing his duties, he was hit by bag of cement falling from first floor where concreting works were being done. The insurance company refused to compensate Onyango for the injuries despite Suwa Construction Company having paid the insurance premiums for workers' safety. Discuss. (12 marks)
- b) Outline the safety procedures during erection of steel water tank [5½ marks]

----END OF QUESTION PAPER----