



(University of Choice)

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

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2021 / 2022 ACADEMIC YEAR**

THIRD YEAR SECOND SEMESTER EXAMINATIONS

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

COURSE CODE: BTB 362

COURSE TITLE: OCCUPATIONAL SAFETY AND HEALTH

DATE: THURSDAY 28TH APRIL 2022 TIME: 3.00 – 5.00 PM

INSTRUCTIONS:

1. This paper contains FOUR Questions
2. Attempt Question ONE and any other two questions
3. Marks for each question are indicated in the parenthesis.
4. It is in the best interest of the student to write legibly
5. Examination duration is **2 Hours**

MMUST observes ZERO tolerance to examination cheating

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

QUESTION ONE (Compulsory)

[30 Marks]

- a) The basic elements of a construction industry are the employees (workers), the tool and equipment, the process and the work environment. Explain how a contractor can ensure occupational safety and health practices are adhered to with respect to the named elements [20 Marks]
- b) Explain the difference between a job safety analysis (JSA) and a risk assessment [5 marks]
- c) Describe how workplace safety regulated and enforced in the building construction industry in Kenya [5 marks]

QUESTION TWO

[20 Marks]

Construction workers in the building industry are working in a hazardous environment. Describe the key dangers exposed to workers in the construction industry

QUESTION THREE

[20 Marks]

- a) A single-storey farm building is to be demolished using an excavator. Outline control measures that the method statement should contain for this activity. [8 marks]
- b) Describe reasons why a wheeled excavator may overturn on a construction site [8 marks]
- c) Why do safety management systems/programmes fail in construction sector [4 marks]

QUESTION FOUR

[20 Marks]

- a) Occupational safety and health is important particularly in developing countries. Discuss [15 marks]
- b) Outline the precautions when demolishing a building made of asbestos roofing materials [5 marks]

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BEST OF LUCK