

(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2019/2020 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: Tuesday 3RD November 2020 TIME: 9.00 - 11.00 AM

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 student to write legibly
- 5. Examination duration is 2 Hours

MMUST observes ZERO tolerance to examination cheating
This Paper Consists of 3 Printed Pages. Please Turn Over.

QUESTION ONE

- a) Differentiate between the following terms giving examples for each case [4 marks]
- i) Hazard and Risk ii) Safety and Health
- b) Outline the salient features of a construction site which makes it a concern for occupational safety and health officer [4 marks]
- c) Outline the main objectives of safety management [6 marks]
- d) Explain the metrics for accident measurement in a construction site (6 marks)

QUESTION TWO

- a) You have been appointed as an occupational safety and health manager in the contractor's office, explain how you would ensure safety in the construction site [8 marks]
- b) XYZ insurance company declined to pay ABC construction company as a compensation of two workers who sustained serious injuries during excavation of foundation works of a Highrise building. Outline the possible reasons which may have prompted the site assessment team from the insurance company to decline payment of the compensation [6 marks]
- c) Outline the circumstances of using suspended scaffolds and likely causes of accidents arising from their use [6 marks]

QUESTION THREE

- a) Outline the limitation of using ladders as a safety precaution measure in a building construction site [4 marks]
- b) Explain the types of accidents which occur in a roof work [6 marks]
- c) Explain how training helps in preventing accidents in a construction site [5 marks]
- d) Outline the site conditions which make it unsafe to use a crane [5 marks]

QUESTION FOUR

- a) Describe the steps that can be taken in a construction site to prevent accidents in material handling [6 marks]
- b) What are the risks associated with power-driven machinery? What would you do to minimize these risks? [8 marks]
- c) How have various machines changed work methods in the construction industry in the past few years? [6 marks]

QUESTION FIVE

- a) Describe the ergonomic hazards in a construction site [6 marks]
- b) Explain the precautions that should be followed when using flammable chemicals in a construction site [6 marks]
- c) Describe the following hazardous substances in the construction industry [8 marks]

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i) Cement ii) Asbestos