



KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER
MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN RENEWBLE
ENERGY AND BIOFUELS TECHNOLOGY

COURSE CODE: SUT 451

COURSE TITLE: SAFETY PRACTISE AND PROCEDURES

DURATION: 2 HOURS

DATE: 14/07/2021

TIME: 9:00-11:00AM

INSTRUCTIONS TO CANDIDATES

- Answer **QUESTION ONE** (Compulsory) and any other two (2) Questions.
- Indicate **answered questions** on the front cover.
- Start every question on a new page and make sure question's number is written on each page.

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

QUESTION 1 (30 marks)

- a. Define the following terms:
- i. Safety practices (1 mark)
 - ii. Safety Procedures (1 mark)
 - iii. Hazard (1 mark)
 - iv. Fire (1 mark)
 - v. First aid (1 mark)
- b. State any five (5) basic safety requirements. (5 marks)
- c. State any five (5) ways of preventing accidents caused by unsafe acts. (5 marks)
- d. Explain any five (5) ways of general source noise control. (5 marks)
- e. State any five (5) purposes for Hazard inventory. (5 marks)
- f. State any five (5) requirements of a first aid room. (5 marks)

QUESTION 2 (20 marks)

- a. Explain any five (5) worksite analysis methods for hazards, giving two examples each of what the method assesses. (10 marks)
- b. State any five (5) Safety provisions in case of fire as per the Factory Act. (10 marks)

QUESTION 3 (20 marks)

- a. Explain any the two (2) categories of direct causes of accidents, giving four (4) examples of each category. (6 marks)
- b. State the two (2) categories of accident costs, giving three (3) examples of each category. (4 marks)
- c. State any four (4) items found in a first aid kit. (2 marks)
- d. Describe any four (4) factors are considered when designing first aid in a work place. (8 marks)

QUESTION 4 (20 marks)

- a. State the four (4) categories of hazards found in the industry, giving three (3) examples of each category. (10 marks)
- b. Explain any five (5) corrective and preventive actions in the Electromagnetic Compatibility of electrically powered devices in manufacturing. (10 marks)

QUESTION 5 (20 marks)

- a. State the three (3) essential elements for fire to occur. (3 marks)
- b. State the four (4) ways of extinguishing fire. (4 marks)
- c. State any five (5) types of extinguishers and the classes of fire for which they can be used to extinguish. (10 marks)
- d. State the three (3) conditions that affect the successful use of fire extinguishers.