



ZIMBABWE EZEKIEL GUTI UNIVERSITY

COLLEGE FOR LIFELONG LEARNING

FACULTY OF SCIENCE, TECHNOLOGY, AGRICULTURE AND FOOD SYSTEMS

EXAMINATION PAPER

MODULE CODE : DSMSH 111

MODULE TITLE : Introduction to Environmental Safety and Health in Mining

DURATION : 3 Hours

LEVEL : 1:1

29 JUL 2024

DATE :

INSTRUCTIONS TO CANDIDATES:

1. Question **Number 1** in **Section A** is **compulsory**.
2. Answer any other **two (2)** questions from section B.
3. Each question carries twenty-five (25) marks
4. Number of marks for part questions are shown in brackets
5. Start each question on a new page
6. This paper consists of two (2) pages
7. Answer sheets are provided

Section A: Compulsory

Question 1

- a. Describe the main facets for the following concepts;
 - i Environmental Health (5 marks)
 - ii Environmental Safety (5 marks)
- b. For a named environmental health concern, discuss the causes for such concerns in the mining industry in Zimbabwe (15 marks)

Section B: Answer any two (2) questions from this section

Question 2

Identify the pillars of an environment and discuss their interrelationships for a mining company like Freda Mine. (25 marks)

Question 3

- a. Describe and explain the Deming cycle and how it helps in environmental management. (10 marks)
- b. Discuss potential benefits of establishing a formal and effective environmental management system for a mining industry. (15 marks)

Question 4

- a. Discuss the environmental auditing process for your company (13 marks)
- b. Explain the 6 principles of environmental auditing which you uphold as an editor (12 marks)

Question 5

With the aid of examples assess the merits and demerits of using renewable energy resources. (25 marks)

The End