



GWANDA STATE UNIVERSITY

FACULTY OF NATURAL RESOURCES MANAGEMENT AND AGRICULTURE

ENVIRONMENTAL HEALTH AND SAFETY NGE 2202

Final Examination Paper

November 2024

This examination paper consists of 2 pages.

Time Allowed: 3 hours

Examiner's Name: Mr. Magenge

INSTRUCTIONS

1. Answer any FOUR questions
2. Each question carries 25 marks.
3. Credit will be given to answers that are clear, illustrated, concise, and grammatically well-constructed.

1. Examine how negligence and lack of a functional health and safety management system is both an economic and social cost to business and the society. [25]

2. a. Discuss the causes of fire disaster at a workplace you have studied. [10]

b. Considering Hierarchy of hazard control outline methods of controlling noise at a workplace. [15]

3. a. Distinguish between an accident and a near miss [6]

b. Outline any two key dimensions of the Health Belief Model (HBM) [4]

b. With the help of examples explain, the broad factors that lead to human error in the human factors theory. [15]

4. a. Outline the main objectives of OSH audit [6]

b. Outline the duties and responsibilities of the employees in the OSH implementation framework [6]

c. If you were to conduct an audit of a safety and health management systems, discuss the process that you follow and the specific tasks you would perform. [13]

5a. State any 3 long term health problems caused by poor ergonomics management at a work place [3]

b. Briefly explain the following ergonomic concepts:

i. Physiological basis for ergonomics [5]

ii. Sociological basis for ergonomics [5]

c. Briefly explain factors that affect toxicity in humans [12]

6a. Briefly explain the provisions of the following occupational health and safety management systems international standards giving relevant examples.

i. ISO 45001 [6]

ii. ISO 9001 [6]

b. With reference to one OSHE related ACT IN Zimbabwe you have studied, synthesize its major provisions and explain how it is implemented at the enterprise level. [13]

THE END