



"Investing in Africa's future"

COLLEGE OF HEALTH AGRICULTURE & NATURAL SCIENCE (CHANS)

DEPARTMENT OF PUBLIC HEALTH AND NURSING [DPHN]

MASTERS OF PUBLIC HEALTH [MPH]

NSPH 537: OCCUPATIONAL HEALTH

END OF SECOND SEMESTER FINAL EXAMINATIONS

NOVEMBER – DECEMBER 2023

LECTURER: MR R. DOZVA

DURATION: 3 HRS

INSTRUCTIONS

Answer **ALL** Questions in **Section A** and **ANY 3** questions from **Section B**

The mark allocation for each question is indicated at the end of the question

Credit will be given for logical, systematic and neat presentations.

SECTION A

Question 1

Africa University has hired you as a consultant to develop an occupational health program for its operations. Describe in detail the steps you would take to accomplish this assignment. [20]

Question 2

- a.) Explain the importance of occupational exposure limits. [12]
- b.) Air contains 125ppm of acetone (Exposure limit, 250ppm), 100ppm of sec- butyl acetate (Exposure limit, 200ppm) and 50ppm of methyl ethyl ketone (Exposure limit, 200ppm). Determine whether the exposure limit for this additive effect mixture has been exceeded. [8]

SECTION B

Question 3

Discuss the level of preparedness of Zimbabwe in chemicals safety and health management in accordance with the provisions of the Globally Harmonized System (GHS). [20]

Question 4

Explain the importance of International Labour Organization conventions 155 (Occupational Safety and Health) and 161 (Occupational Health Services) in the management of occupational health. [20]

Question 5

- a) Outline the hierarchy of control? [10]
- b) Apply this principle to control chemical hazards in a room where different chemicals including benzene are being manually mixed to come up with a solvent. [10]

Question 6

Write short notes on the following

Occupational asthma [5]

Legionella disease [5]

Bhopal disaster [5]

Vibration [5]

End of Paper