



“Investing in Africa’s future”

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES (CHANS)

DEPARTMENT OF PUBLIC HEALTH AND NURSING

NSPH 537: OCCUPATIONAL HEALTH

END OF SECOND SEMESTER FINAL EXAMINATIONS

APRIL/MAY 2025

LECTURER: MR. R. DOZVA

DURATION: 3 HRS

INSTRUCTIONS

**ANSWER ALL QUESTIONS IN SECTION A AND ANY
THREE QUESTIONS IN SECTION B**

Marks allocated is shown at the end of each question

Credit will be awarded for logical, systematic and neat
presentation.

SECTION A ANSWER ALL QUESTIONS (40 marks)

Question 1

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

Question 2

- a) What is 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]

SECTION B ANSWER ANY THREE (3) QUESTIONS (60 Marks)

Question 3

- 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]

Question 4

Outline the general control measures which you can recommend for reducing employee exposure to occupational heat stress. [20]

Question 5

Discuss Heinrich's domino accident causation model as applied to accident prevention. [20]

Question 6

Lighting [5]

Occupational stress [5]

Sick building syndrome

[5]

Ionizing radiation

[5]