



“Investing in Africa’s future”

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

DEPARTMENT OF PUBLIC HEALTH AND NURSING

NSPH 537: OCCUPATIONAL HEALTH

END OF SECOND SEMESTER EXAMINATION

APRIL/MAY 2024

LECTURER: MR. R. DOZVA

DURATION: (3 HRS)

INSTRUCTIONS

Do NOT write your name on the answer sheet.

Answer all questions in section A and any 3 in section B

Begin your answer for each question on a new page.

Credit is given for neat, well-written and lucid work.

SECTION A

Question 1

- a) Describe the components of occupational hygiene. [12]
- b) Calculate the concentration of dust in milligrams per cubic metre (mg/M^3) using the following data: Pump flow rate 2litres per minute; Sampling time 4 hours 10 minutes; Weight of dust 5000 micrograms [8]

Question 2

Explain the elements of a hearing conservation program.

SECTION B Question 3

Discuss the management of biological hazards in Zimbabwean workplaces. [20]

Question 4

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

[20]

Question 5

Describe the concept of toxicokinetics and its importance in workplace toxic substances management. [20].

Question 6

Write short notes on the following

Occupational Sensitization	[5]
Occupational stress	[5]
Sick building syndrome	[5]
Ionizing radiation	[5]