



"Investing in Africa's Future"

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL

SCIENCES

DEPARTMENT OF PUBLIC HEALTH AND NURSING

NSPH 537: OCCUPATIONAL HEALTH

END OF FIRST SEMESTER

EXAMINATION

NOVEMBER/DECEMBER 2022

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

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. [11]

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 [9]

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

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]

Question 6

Write short notes on the following

Occupational Sensitization

[5]

Occupational stress

[5]

Legionella disease

[5]

Bhopal disaster

[5]