



COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

SPH 537: OCCUPATIONAL HEALTH 1

END OF FIRST SEMESTER EXAMINATION

APRIL/MAY 2019

LECTURER: MR. R. DOZVA

DURATION: (3 HRS)

INSTRUCTIONS

Please read carefully the following instructions.

ANSWER ANY FOUR (4) QUESTIONS

THE MARK ALLOCATION FOR EACH QUESTION IS INDICATED
AT THE END OF THE QUESTION

CREDIT WILL BE GIVEN FOR LOGICAL, SYSTEMATIC AND NEAT
PRESENTATION

PLEASE NUMBER THE QUESTIONS ON YOUR ANSWER SHEET
EXACTLY AS THEY ARE NUMBERED ON THE QUESTION PAPER

Question 1

Discuss the dose response relationship within the context of management of toxic substances within the workplace. [25]

Question 2

(a) Explain the importance of occupational exposure limits. [13]

(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 [12]

Question 3

Write short notes on the following

Asphyxiation [5]

Legionnaire disease [5]

Lead [5]

Mutation [5]

Asbestos [5]

Question 4

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. [25]

Question 5

Compare and contrast Heinrich's accident causation model and Bird and Germain's loss causation model as applied to accident prevention. [25]

Question 6

Giving examples describe the importance of the International Labour Organisation in the management of occupational health. [25]