

"Investing in Africa's Future"

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

DEPARTMENT OF PUBLIC HEALTH AND NURSING

NSHS 210: ENVIRONMENTAL & OCCUPATIONAL HEALTH

END OF SECOND SEMESTER EXAMINATION

JANUARY/JUNE 2021

LECTURER: MR. R. DOZVA

DURATION: (7 HRS)

INSTRUCTIONS

Do NOT write your name on the answer sheet.

Answer (fully) any one question of your choice.

Begin your answer for each question on a new page.

Each full question carries 100 marks.

Font: Times New Roman, Font size 12, Line space: 2.0.

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

QUESTION 1

1a.	Describe the importance of International Labour conventions 155 (safety and		
	health) and 161(Occupational health services) in the management of occupa		
	health.	[25]	
1b.	Define a primary and secondary pollutant and two examples of each	[9]	
1c.	Name any two air pollution control devices and their mode of operation	[16]	
1d.	Write short notes on the following		
i.	Chernobyl disaster	[10]	
ii.	Trafigura dumps	[10]	
iii.	Lead	[5]	
1e.	Describe the water treatment process.	[25]	
QU	ESTION 2		
2a.	Describe the importance of the Montreal protocol and the Basel conventio management of environmental health.	n in the [25]	
2b.	Explain the importance of occupational exposure limits.	[13]	
2c.	Calculate the concentration of dust in milligrams per cubic metre (mg/M ³) the following data: Pump flow rate 2 litres per minute; Sampling time 4 hours		

[12]]

minutes; Weight of dust 5000 micrograms

2d.	d. Write short notes on the following					
	i.	Bhopal disaster	[10]			
	ii.	Piper Alpha disaster	[10]			
	iii.	Legionella disease	[5]			
2e.	D	escribe the most common three methods of food preservation.	[25]			
QU	QUESTION 3					
3a.		scuss the legislative and management systems approaches in the manager environmental and occupational health	ment [25]			
	Oi	environmental and occupational health	[20]			
3b.	W	hat is the hierarchy of control?	[10]			
3c.		oply this principle to control chemical hazards in a room where different and the control chemical hazards in a room where different control chemical hazards in a room where chemical hazards i				
	cr	emicals including benzene are being manually mixed to come up with a solv	vent. [15]			
3d.	W	rite short notes on the following				
i.		Minamatta bay mercury poisoning	[10]			
ii.		Sick building syndrome	[10]			
iii.		Occupational stress	[5]			

Discuss the polluter pay principle in waste management.

3e.

[25]