



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF HEALTH SYSTEMS MANAGEMENT AND DEVELOPMENT
BACHELOR OF SCIENCE IN HEALTH SYSTEMS MANAGEMENT AND
DEVELOPMENT

END OF SEMESTER EXAMINATION APRIL 2025

HMD 228: OCCUPATIONAL HEALTH AND SAFETY

TIME: Two Hours

Date : 11th April 2025

TIME : Two (2) Hours Start- 4.30PM End 6.30PM

INSTRUCTIONS TO CANDIDATES

- 1) This exam is out of 70 marks
- 2) Section-A is compulsory with a Total of 30 Marks
- 3) Answer any TWO (2) questions in Section B

Read carefully the additional instructions preceding each section.

Section A- 30 Marks

1. St. Ada Hospital is a mid-sized healthcare facility with 500 employees, including doctors, nurses, administrative staff, and support personnel. Recently, the hospital has faced a rise in occupational health issues, such as:

- Increased reports of musculoskeletal injuries among nurses due to heavy lifting and long shifts.
- Rising cases of burnout and stress-related illnesses among staff.
- Exposure to infectious diseases, particularly among frontline workers.
- Complaints about poor ergonomic conditions in administrative offices.

These issues have led to higher absenteeism, reduced productivity, and declining employee morale, ultimately affecting patient care quality

- a) Enumerate Five Solutions to Address the Challenges (5 Marks)
- b) Outline Four Steps to Implement a Solution (4 Marks)

Instructions:

2. Match the type of Personal Protective Equipment (PPE) on the left with the corresponding workplace hazard it protects against on the right. Write the correct letter in the space provided.(6Marks)

1. PPE Types:	Hazard
2. Gloves	B. Loud noise or hearing damage
3. Safety Goggles	C. Chemical splashes or airborne particles
4. Respirator	D. Harmful dust, fumes, or gases
5. Hard Hat	E. Cuts, abrasions, or exposure to infectious materials
6. Earplugs/Earmuffs	A. Falling objects or head injuries

- 3. Enumerate four sources of hazards to human beings (4 Marks)
- 4. Outline 3 types of radiation Hazards and one Prevention/Control Measures for each(6Marks)
- 5. Outline five functions of the government in preventing occupational health and safety.(5Marks)

Section B- 40 Marks

Answer any two

6. Discuss four roles and responsibilities and provide specific examples of how each stakeholder can contribute to creating a safe and healthy work environment:
 - a. Workers(6Marks)
 - b. Employers(10 Marks)
 - c. employee representatives(4Marks)

7. Discuss five health hazards that are potentially harmful to the Kenyan population. (20Marks)

8. Flower farming, while aesthetically pleasing, involves various occupational hazards that can affect workers' health and safety.
 - (a)Discuss five flower-farming/floriculture related hazards (10 Marks)
 - (b) and their potential impacts. (10Marks)