



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya.
Tel: +254 (0)799529958, +254 (0)799529959, +254 (0)712524293
Website: www.must.ac.ke Email: info@must.ac.ke

UNIVERSITY EXAMINATIONS 2024/2025

THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE IN HEALTH SYSTEM MANAGEMENT

NNH 3304 – INTRODUCTION TO OCCUPATIONAL HEALTH AND SAFETY

DATE: JANUARY 2025

TIME: 2 HOURS

INSTRUCTIONS: Answer Question **ONE** and any other **TWO** questions

QUESTION ONE

- a) State elements of an effective safety and health program (4 marks)
- b) You are in a member of health safety committee that is developing an occupational safety plan in radiology department. With examples state three principles of radiation protection that should be adopted in this plan (6 marks)
- c) Inhalation of toxic gases is a major occupational risk for quarry workers. With examples describe two types of asphyxiants and mechanisms in which they can cause poisoning for quarry workers (4 marks)
- d) Describe two types of occupational noise induced hearing loss (4 marks)
- e) Outline the five phase occupational safety health hearing conservation to control noise (5 marks)
- f) State three strategies to control indoor air pollution (3 marks)
- g) Discuss strategies for managing psychosocial hazards in a healthcare setting 4 marks



QUESTION TWO (20 MARKS)

Healthcare workers are exposed to various occupational hazards in the workplace. Focusing on the elements of work environment, describe your recommendations to the hospital management in prevention of these hazards.

QUESTION THREE (20 MARKS)

- a) Describe five occupational health effects due to chemical hazards based on their target (10 marks)
- b) With examples, state modes of exposure of the chemical hazards above (10 marks)

QUESTION FOUR (20 MARKS)

- a) Identify one biological hazard that a healthcare provider is predisposed in line of duty and categorize this hazard based on its biosafety level of risk (4 marks)
- b) Describe the route of exposure and mode of spread of the hazard above (4 marks)
- c) Explain three approaches for controlling exposure to the hazard identified above (12 marks)

