



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

THIRD YEAR SECOND TRIMESTER

**FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN NURSING**

COURSE CODE: NCN 321

COURSE TITLE: OCCUPATIONAL HEALTH AND SAFETY

DATE: Tuesday 11th April, 2023

TIME: 8.00a.m. – 11.00a.m.

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in this paper.

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 4 Printed Pages. Please Turn Over. ►

MULTIPLE CHOICE QUESTIONS**(20 MARKS)**

1. The _____ created the Occupational Safety and Health Administration (OSHA) to set and enforce protective workplace safety and health standards.
 - a) Worker's Safety Act of 1970
 - b) National Worker Protection Association
 - c) Occupational Safety and Health Act of 1970
 - d) National Institute for Occupational Safety and Health

2. Per OSHA requirements, employers are responsible for training employees on _____
 - a) Recognition and avoidance of unsafe conditions
 - b) How to carry out their duties
 - c) how to report unproductive workers
 - d) working efficiently and effectively

3. How often should site safety meetings be performed?
 - a) Monthly
 - b) Weekly, or whenever conditions change
 - c) Daily, or whenever conditions change
 - d) Hourly

4. Which of the following would NOT be found on a site safety plan?
 - a) Emergency action plan
 - b) Racking attachment details
 - c) Incident notification
 - d) Minimum PPE

5. What type of form is intended to identify, eliminate, and control hazards?
 - a) Job hazard analysis form
 - b) Task control form
 - c) Worker safety identification form
 - d) Hazard control form

6. New workers entering a task zone must read and sign off on the job hazard analysis form
 - a) True
 - b) False

7. The least effective hazard control type is _____.
 - a) Training and procedures
 - b) Warnings
 - c) Personal protective equipment
 - d) Engineering controls

8. The most effective hazard control type is _____.
- Personal protective equipment
 - Elimination or substitution
 - Engineering controls
 - Training and procedures
9. Which of the following concept is part of a “culture of safety”?
- Only pay attention to the task you are working on
 - Work as quickly as possible to get the job done
 - Never work alone
 - Include many people on a single task
10. If an OSHA compliance officer arrives on your project, you are expected to:
- Stop what you are doing and immediately take them on a field tour.
 - Contact your project manager or highest ranking supervisor on duty and take the officer to the office to meet with them.
 - Let everyone know so they can stop work and clean up.
 - Allow full access to the project
11. In order to prove we provided training, we need to have the proper documentation with names on the sign-up sheet.
- TRUE
 - FALSE
12. What causes the most construction-site fatalities?
- Falling buildings
 - Falling stones
 - Fall from height
 - Dust inhalation
13. Which worker is most likely to experience silica exposure?
- Mason
 - Electrician
 - Carpenter
 - Painter
14. The distinguishing feature of the coronavirus is its:
- Size
 - Deadliness
 - Shape
 - Mutation
15. Which statement isn't true?
- Virus comes in different forms
 - Virus can replicate within a host
 - Virus can infect living cells
 - Virus can be treated with antibiotics

16. Scaffolds have to be designed to carry _____ times the intended load, according to OSHA guidelines.
- 2
 - 4
 - 20
 - 40
17. Which workplaces are given the highest priority for OSHA inspections?
- A situation where workers face an immediate risk of death or serious physical harm
 - An accident that requires hospitalization of three or more workers.
 - A workplace that has more than 500 workers working on electric machines
 - All construction workplaces working on more than 10 story building.
18. The following is true about the concerns or purpose of OSHA act of 1970 except
- Ensure safe and healthful working conditions for workers
 - Setting and enforcing standards
 - Providing training,
 - Compensating injured workers
19. There are four groups of OSHA standards. The OSHA standards that applies to the largest number of workers and worksites are:
- General Industry
 - Construction
 - Maritime,
 - Agriculture
20. Which of the following factors does NOT put you at risk for injury?
- Repetitive motions
 - Prolonged exposure to vibration
 - Long periods of localized pressure
 - Neutral postures

SHORT ANSWER QUESTIONS (20 MARKS)

- How is the financial and economic crisis affecting occupational health and safety standards in Kenya? (8 Marks)
- Match the hazard with the corresponding symbol and give an example of where the hazard is found (10 Marks)

Explosive	(Symbol: exclamation mark)
Flammable	(Symbol: skull and crossbones)
Oxidising	(Symbol: flame)
Acute toxicity	(Symbol: exploding bomb)
Health hazard/Hazardous to the ozone layer)	(Symbol: flame over circle)
- Using a diagram, show the relationship between the consequence of a hazard and the likelihood of the risk (10 Marks)
- Explain the contribution of any four Historians to the field of occupational health and safety (8 Marks)
- What is the importance of epidemiology in occupational health and safety? Give four reasons (8 Marks)

LONG ANSWER QUESTION (40 MARKS)

1. Discuss the four basic principles of industrial hygiene (20 MARKS)
2. Explain the four types of fire and the different ways of dealing with each in case of an emergency (20 Marks)