INTERNATIONAL UNIVERSITY OF EAST AFRICA
'Learning to Succeed'

FACULTY OF SCIENCE AND TECHNOLOGY

END OF SEMESTER EXAMINATIONS - DECEMBER 2025

PROGRAMME: BSEM
YEAR/SEM: YEAR 3/SEMESTER 1
COURSE CODE: BSE3105
NAME: OCCUPATIONAL HEALTH & SAFETY

DATE:
TIME:

INSTRUCTIONS TO CANDIDATES:

SECTION A

Answer all questions . (40 marks)

Question 1:

a) Define the following terminologies in OSH. (2 marks each)
i. Occupation
ii. Risk
iii. Safety
iv. Health
v. Accident
b) With examples, distinguish between proactive and reactive workplace hazard identification techniques. (5 marks)
c) What is the primary goal of occupational health and safety programs in the workplace? (5 marks)
d) How does OSH relate with the company's reputation? (5 marks)
e) Giving 3 examples under each category, differentiate between formal and informal work. (5 marks)
f) Give at least examples of hazards likely to cause damage to an employee's mental wellbeing. (5 marks)
g) Why is it important to consult workers during the hazard identification process? (5 marks)

Question 2:

a) In which ways can chemical exposure in the workplace be controlled? (5 marks)
b) Give at least 5 examples of hazards likely to cause damage to an employee's mental wellbeing. (5 marks)
c) How does workplace safety and health relate with the company's reputation? (5 marks)
d) Distinguish between proactive and reactive workplace hazard identification methods, giving relevant examples under each category. (5 marks)
e) Why is employee consultation important during the hazard identification? (5 marks)
f) What is risk assessment and what is its primary goal in OSH? (6 marks)
g) During risk assessment, risks are graded or categorized depending on their likelihood and severity. Differentiate between low risk and high risk. (4 marks)
h) Define PPE and state its role in mitigating workplace hazards. (5 marks)

SECTION B

ttempt any 3 questions from this section (60 marks)

Question 1:

a. What is an occupation? (2 marks)
b. Giving at least two examples under each category, describe at least 7 types of workplaces. (18 marks)

Question 2:

Discuss the hierarchy of hazard control measures used in OSH and provide practical examples of how each level can be applied in a manufacturing workplace. (20 marks)

Question 3:

a. Define the following terms as applied to OSH; (2 marks each)
i. Hazard
ii. Risk
iii. Health
iv. Personal protective equipment
b. Why is workplace safety and health important? (10 marks)

Question 4:

a) Define the term workplace hazard identification and reasons why it is important in a workplace (6 marks)
b) Discuss the various methods used in workplace hazard identification. (14 marks)

Question 5:

a) Who benefits from Occupational health and safety? (2 marks)
b) Work places are supposed to follow a hierarchy of hazard controls to prevent or reduce occupational hazards. With the help of a diagram, describe the hazard control options in order of decreasing effectiveness (18 marks)

Question 6:

OSH is critically important in every workplace. Discuss. (20 marks)

Question 7:

Mention the name of the organisation where you did your internship in second year and mention the hazards that existed in the workplace. Suggest ways how these hazards can be controlled. (20 marks)

Question 8:

a) What Is Risk Assessment in occupational safety and health? (3 marks)
b) Why Is Risk Assessment Important in Safety? (17 marks)

Question 9:

Describe the six categories of workplace place hazards. Under each category, mention atleast three professions exposed to those specific hazards. (20 marks)

Question 10:

Using 5 workplaces of your choice, identify at least five hazards associated with each. (20 marks)

Question 11:

When we talk about causes of workplace hazards, we mean the underlying factors, behaviors, conditions, or system failures that create or increase the risk of harm in the workplace. Discuss
the various causes of workplace hazards. (5 marks)

Question 12:

Who is affected by workplace hazards and how? (20 marks)