



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2013/2014

**FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF MASTER OF PUBLIC HEALTH
(CITY CAMPUS & HOMA BAY CAMPUS)**

PHO 820: PRINCIPLES AND PRACTICE IN OCCUPATIONAL HEALTH AND SAFETY

Date: 19th December , 2013

Time: 9.00 - 12.00 noon

GENERAL INSTRUCTIONS

1. Write your University Registration Number on every booklet that you use.
2. Do not write your name on any papers you use.
3. This paper consists of four (4) Short Answer Question (SAQs) to be answered in Ninety (60) minutes and Four (4) out of Five (5) Long Essay Questions (LEQs) to be answered in 2 Hours (120) minutes.
4. The time allowed for this Paper is Three (3) hours.
5. The Questions are set out in Two (2) Sections A and B.

SECTION A

SHORT ANSWER QUESTIONS (SAQ's) – 40 MARKS

Instructions:

1. This section has four (4) Questions
2. Answer ALL the four (4) Questions
3. Each question is ten (10) marks

SAQ 1.

- i) Define "Occupational Health and Safety". 1 mark
- ii) Outline the theories of occupational and environmental health and Safety 4 marks
- iii) Define the concept "health and safety management system" 2 marks
- iv) Write brief notes on "disaster and its relationship occupational health and safety" 3 Marks

SAQ 2.

In a short essay, discuss:

- i) Scope of OSH and the Safety Profession 5 marks
- ii) Explain briefly the moral, social and economic reasons for maintaining and promoting good standards of health and safety in the workplace 5 Marks

SAQ 3.

- i) Outline the role of national governments and international bodies in formulating a framework for the regulation of health and safety. 5 Marks
- ii) With the help of a diagram outline the "occupational health and safety hierarchy of controls and Universal Precautions". 5 marks

SAQ 4.

- i) Briefly discuss the identification, the nature and key sources of health and safety information. 3 marks
- ii) Using examples name the types of environmental health hazards. 2 Marks
- iii) Using examples, outline the key elements of a health and safety management system 5 Marks

SECTION B

LONG ESSAY QUESTIONS (LEQ,s) - 60 MARKS.

INSTRUCTIONS

1. This Section has Five (5) Questions
2. Answer any Four (4) Questions from this Section.
3. Each question is 15 (Fifteen) marks.

LEQ 1

XYZ University Campus has embarked on a joint expansion program to accommodate more programs including 2 laboratories, 1 library, 1 engineering workshop and a demonstration Lab. At any given point in time, the Campus would accommodate at least 300 persons (lecturers, Administration staff, Students and Visitors). Using the recommendations of OHSAS 18001's Three Phases for Devising Emergency Response Policies and Procedures, Develop an Emergency Response Plan for XYZ University Campus

(15 Marks)

LEQ 2

Emergency preparedness is a core component in health and safety management;

- a) Outline the Elements of Emergency Plan & Response [10 marks]
- b) Using examples outline the components of environment critical in safety management. [5marks]

LEQ 3

- a) Briefly discuss the concept of "acceptable risk" [5 marks]
- b) Outline the 7 Categories of Toxic substances critical in the science of safety and environment briefly explaining the characteristics of each and detail some of the effects of each type of substance on organs. [10 Marks]

LEQ 4

Utilization of Basic Occupational Health Service (BOHS) model is recommended for expansion of coverage of occupational health services and particularly for serving the **small enterprise, self-employed and informal sector workplaces**.

- i) With the help of a diagram, outline the key components of BOHS Cycle (5 Marks)
- ii) Outline the hierarchy of preventive measures (5 Marks)
- iii) Explain the stepwise strategy for occupational health services provision (5 Marks)

LEQ 5

Discuss the models of occupational health and safety services provision, while outlining the following:

- a) The content of basic occupational health services (5 Marks)
- b) Modern occupational health system (employ the use of a diagram) (5 Marks)
- c) With the help of a diagram, outline the key components of BOHS Cycle (5 Marks)