



Technical University of Mombasa

Faculty of Business & Social Studies

DEPARTMENT OF LIBERAL STUDIES

UNIVERSITY EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN DEVELOPMENT STUDIES

APH 4307: OCCUPATIONAL HEALTH AND SAFETY

SPECIAL/SUPPLEMENTARY EXAMINATION

OCTOBER 2013 SERIES

2 HOURS

Instructions to candidates:

This paper consist of **FIVE** questions

Answer question **ONE** (compulsory) and any other **TWO** questions

Question ONE

- a) Explain the following terms
 - (i) Environmental hazard (2marks)
 - (ii) Rate of exposure. (2marks)
- b) List TWO types of injuries that may be caused by the incorrect manual handling of loads. (4marks)
- c) Give the meaning of the term health and safety audit (4marks)
- d) Explain the purpose of surveillance in work environment. (5marks)
- e) Describe FIVE steps that involved in a risk analysis in work environment. (5marks)
- f) State FIVE examples of safety hazards (5marks)
- g) Explain the role of work place safety and health committee (3marks)

Question TWO

- a) Identify the possible health effects caused by working in hot environment. **(6marks)**
- b) Discuss various methods of hazards monitoring in work environment **(7marks)**
- c) Explain the measures that should be put in place to protect workers from adverse thermal environment effects. **(7marks)**

Question THREE

- a) Personal protective equipment is said to be the last resort in hazard /risk management Discuss? **(3marks)**
- b) Categorization of occupational diseases is multifactorial. Describe the various ways that could assist in the determination of prevention strategies **(8marks)**
- c) Explain why risk analysis is important in work environment. **(6marks)**

Question FOUR

- a) Outline the major responsibilities of occupational health and safety officers. **(10marks)**
- b) Describe accident investigation and prevention in relation to a work place. **(10marks)**

Question FIVE

A few kilometers from your neighborhood is a huge manufacturing concern which produces car batteries, water pipes and paints. You get interested with this plant and out of duty you decided to visit and familiarize yourself with the process and the health and safety conditions of the workers. While being taken round you came across a worker who look ill. The management confirms that this particular worker has had colic pain, constipation, peripheral and central nervous system disorder before finally succumbing to anaemia.

- a) What hazard is this worker exposed to **(3marks)**
- b) Explain why the hazard is regarded as atoxic **(7marks)**
- c) Describe how you should monitor this hazard in a work place. **(10marks)**