



UNIVERSITY OF SWAZILAND

Faculty of Health Sciences

Department of Environmental Health Science

Main Examination 2012

Title of paper: OCCUPATIONAL HEALTH

Course code: EHS 315

Time allowed: 2 HOURS

Marks allocation: 100 Marks

Instructions:

- 1) Answer ANY FOUR (4) questions**
- 2) Each question is weighted 25 marks**
- 3) Write neatly and clearly**
- 4) Begin each question in a separate sheet of paper**

This paper is not to be opened until the invigilator has granted permission

QUESTION 1

- a) As a new safety officer, you have been hired to avert the bad publicity that has been attributed to a number of accidents at the XYG Colliery mine. As a start what are the possible sources of information will you consult in order to gather any information in the workplace? (12)**
- b) Briefly discuss the 2 key groups of people who can make any workplace program to work efficiently (6)**
- c) List the 5 key classes (not types) of hazards that one can find in the workplace (5)**
- d) There is a stage in the evolution of an entity that should be critically looked into if one wants to prevent accidents/diseases from happening. What is this stage? (2)**

QUESTION 2

- a) Work –related accidents can be both costly to the employer and the employee.
 - i. What could be the direct costs to the worker? (3)**
 - ii. Direct cost to the employer (8)**
 - iii. Indirect cost to the employer (6)****
- b) Name 4 first aid measures that a safety officer may apply if a worker has been exposed to a minor injury at the workplace under the Material Safety Data Sheet (MSDS) (8)**

QUESTION 3

- a) If you have been nominated by your fellow workers as a Health and Safety representative, discuss 3 possible measures that you would use to perform your task to the satisfaction of your colleagues? (6)**
- b) What form of fire extinguishing media would you recommend to be used during an emergency situation as contained in an MSDS? (4)**
- c) Define the following terms as they relate to OHS (10)
 - i. Safety**
 - ii. Outcome**
 - iii. Risk assessment**
 - iv. Risk**
 - v. Hazard****

- d) List 5 effects that may be attributed to a chemical under Hazard Identification (MSDS) (5)

QUESTION 4

- a) A big consortium is undertaking a major construction in your locality. What possible health hazards may be associated with these following subsections of this project? (16 – 4 each)
- i. Welding
 - ii. Mechanic
 - iii. Port worker
 - iv. Construction worker
- b) Write short notes on the following (6)
- i. Disability insurance
 - ii. Compensation bargain
 - iii. Role of Occupational Health Services
- c) What are the 3 key workers' rights that are afforded to them according to the Swaziland OSHA 2001? (3)

QUESTION 5

- a) Safe work practices demand that the level of a worker's skill and knowledge should be taken into account. What are the 4 possible considerations under this statement that are critical (8)
- b) Hierarchy of control measures are classified into different categories, what will you do under engineering, if you were to reduce noise from the source? (10)
- c) What is the function of the Tripartite Advisory Technical committee for OSHA 2001? (1)
- d) Under evacuation procedures, which group(s) of people are classified as special needs personnel? (6)