

Botswana College of Distance and Open Learning

In Collaboration with

Zimbabwe Open University

Occupational Health and Safety

Sessional Examination

November, 2008

Time: 3 hours

Marks: 100

Instructions:

1. Write your name, centre and candidate numbers on the answer booklet(s) provided.
2. This paper consists of sixteen (16) questions in three (3) sections A, B, and C.
3. Answer the questions in each section according to the instructions given at the beginning of each section.
4. Answers should be written in the answer booklet(s) provided.

SECTION A: SHORT ANSWER QUESTIONS**[45 marks]****Question 1**

What is the difference between the terms *risk* and *hazard*? [2 marks]

Question 2

Identify the disciplines in Occupational Health. [4 marks]

Question 3

Briefly describe the health effects associated with poor air quality at the workplace and give examples. [6 marks]

Question 4

A lighting survey at the work place has identified the difficulty to see the task as a hazard of concern. Briefly state how you would manage this hazard to improve the situation. [3 marks]

Question 5

What is the importance of materials safety data sheet? [6 marks]

Question 6

What do you understand by the term target organs? Give examples of such organs. [4 marks]

Question 7

What are the objectives of noise assessment in a work place? [4 marks]

Question 8

Define the term controls in ergonomics and give two examples of control measures applied to control ergonomic problems of a work place. [4 marks]

Question 9

List the types of noise. [4 marks]

Question 10

Identify **four** fire prevention strategies and briefly explain each one of them. [8 marks]

SECTION B: ESSAY QUESTIONS**[40 marks]****Question 11**

In detail discuss the **three** key areas of an occupational hygiene program. [8 marks]

Question 12

What properties of matter do we use to group hazardous air pollutants. Briefly describe each of the **four** groups. [8 marks]

Question 13

Why is it important to have an occupational hygiene investigation report. Identify the most important components of the report. [8 marks]

Question 14

Classify hazardous substances and briefly explain any **three** of them. [8 marks]

Question 15

What is audio metric testing? Outline the purpose of each audiometry. [8 marks]

SECTION C: CASE STUDY**[15 marks]****Question 16**

Ruth, a 23-year old woman, a tailor by profession was recently hired to lead and manage a small scale tailoring shop. The company employed 3 males and 7 females. Most of the employees whenever fabric is delivered, they experience symptoms which include shortness in breath, dizziness sneezing and coughing. One of the workers was hospitalised for asthmatic attacks. The company recently won a tender to grade the cotton balls imported from Zimbabwe. Thus as a result of increased business the company looks forward to buying more machinery for grading cotton and increase the staff compliment. Change room facilities have been provided for at the company but it seems no one is interested in using them. Laundry of all work suits is done at home. If you were Ruth what appropriate action would you take to improve the health status at the tailoring company. [15 marks]