

**BONDO UNIVERSITY COLLEGE**  
**UNIVERSITY EXAMINATION 2013/2014**

**SECOND YEAR FIRST SEMESTER EXAMINATION**  
**FOR BACHELOR OF SCIENCE IN COMMUNITY**  
**HEALTH & DEVELOPMENT**  
**BONDO**

**COURSE CODE: HCD 3216**

**TITLE: OCCUPATIONAL HEALTH AND SAFETY**

**INSTRUCTION FOR THE CANDIDATES**

1. Write your University Registration Number on the examination booklet and every piece of paper you use
2. Do not use red pen in answering questions
3. Do not write your name on any piece of paper you use
4. This paper consists of Two sections:
  - a. Section A: Answer ALL 10 Short Answer Questions (Total 30 marks)
  - b. Section B- 4 essay type question and candidate to answer any TWO Questions (Total 40 marks)
5. Start each question in Section B on separate sheet of paper in booklet
6. Please take time to read carefully the additional instruction preceding each section and each question
7. Ensure you write neatly and legible (readably)

**THIS PAPER CONSIST OF FOUR (4) PAGES INCLUDING THE COVER PAGE**

**SECTION A – Answer ALL short Answer questions – (30 marks)**

1. Attempt the following;
  - a. Define occupational health and safety in totality? [1.5 marks]
  - b. Acronym “ALARA” in dose exposure means what as far occupational health and safety is concerned? [1.5 marks]
2. Differentiate between the following terms:
  - a. Hazard and risk [1 marks]
  - b. Occupation safety and occupational health [1 marks]
  - c. Ionizing and non-ionizing radiation [1 marks]
3. Briefly state the significance of the following in terms of the Occupational health and safety development. [3 marks]
  - a. Code of Hammurabi
  - b. Bernardino Ramazzini
  - c. Asbestos Menace
4. Briefly;
  - a. Define Personal Protective Equipment (PPE) [1 mark]
  - b. Explain why PPE is said to be the last resort in hazard/risk management? [1 marks]
  - c. Name any 2 main entry of chemical hazards into our body [2 marks]
5.
  - a. Every day workers all over the world and in Kenya are faced with a multitude of health hazards, name any 2 you know of (1 marks)
  - b. Explain why training is a critical component of any occupational health and safety program (2 marks)

6.

- a. List at least 2 duties and responsibility of the following when it come to occupational health and safety at work place
    - i. Employer [1 marks]
    - ii. Employee [1 marks]
  - b. While assessing hazards at work place, there is need look at human differences to exposure based on the following, name any 2 [1 marks]
7. State;
- a. When was ILO formed and when did Kenya join ILO [1 marks]
  - b. What is ILO mandate in relationship with Occupational health and safety [1 marks]
  - c. What is your understanding of tripartite association as far as Occupational Health and Safety is concerned in Kenya [1 marks]
8. Among the most important contributions of organized labor to the Occupational Health and Safety as we know it today was their work to overturn anti-labor laws relating to safety in the workplace. Briefly define these laws using current examples;
- a. fellow servant rule [1 marks]
  - b. the doctrine contributory negligence [1 marks]
  - c. the concept of assumption of risk [1 marks]
9. Early occupational health and safety programs were based on the three E's, name the 3 Es and briefly explain how they apply in the field occupational health and safety [3 marks]
10. Work-related accidents or diseases are very costly and can have many serious direct costs and indirect costs on the lives of workers and their families, name at least 4 of each costs you know of;
- a. Direct cost of workers [1.5 marks]
  - b. Indirect cost of workers [1.5 marks]

**SECTION B – Essay (Answer any 2 questions in this section) [40 marks]**

1. Discuss the hazards that may be associated with these jobs and show which PPE category is needed for them [20 marks]
  - a. Welder
  - b. Mechanic
  - c. Port worker
  - d. Textile worker
  - e. Tractor driver
  - f. Agricultural worker
  - g. Electronics assembly worker
  - h. Office worker
  - i. Construction worker
  - j. Miner
  
2. History of Occupation Safety and Health Movement is very important to understanding the “roots” and future. With the historical perspective in mind and quoting specific examples, discuss the Occupation Safety and Health Movement, then and now highlighting the milestone achieved in each era as below;
  - a. Pre-Industrial Revolution [7 marks]
  - b. Post-Industrial Revolution [7 marks]
  - c. Health and Safety Movement today [6 marks]
  
3. Describe at least ten main principles linked to the definition occupational health and safety. [20 marks]
  
4. Describe any accident theory you know of in relation to occupation health and safety [20 marks]