

**JARAMOGI OGINGA ODINGA UNIVERSITY OF  
SCIENCE AND TECHNOLOGY**

**SCHOOL OF HEALTH SCIENCES**

**BUSIA LEARNING CENTRE**

**FIRST SEMESTER UNIVERSITY EXAMINATIONS 2013/2014**

**SECOND YEAR BSc CHD & BSc PH**

**HCD 3216: OCCUPATIONAL HEALTH AND SAFETY**

**AUGUST 2013**

**TIME: 9 AM – 11 AM**

**INSTRUCTIONS**

1. This paper contains TWO sections.
2. Answer ALL questions in section A and ANY OTHER two questions in section B.
3. Write all answers in the answer booklets provided.
4. Write your registration number in all booklets provided.

**Section A: Answer ALL questions in this section (30 Marks)**

1. Define the term “hazard” (3 marks)
2. State the significance of occupational health from a moral, legal and financial perspective (3 marks)
3. Briefly outline three key occupational health and safety principles (3 marks)
4. Classify natural hazards in general giving one example in each class (3 marks)
5. State three public health consequences of disasters (3 marks)
6. Outline the Hyogo framework of disaster management. (3 marks)
7. Outline three responsibilities/obligations of workers in maintaining their occupational health and safety? (3 marks)
8. What do you understand by the word “Occupational health surveillance” (3 marks)
9. Outline three health risks related to housing (3 marks)
10. Distinguish between sick building syndrome and building related illness (3 marks)

**Section B: Essays. Answer any TWO questions. (40 Marks)**

1. Discuss fire disaster under the following subheadings
  - a. Causes of fires (**4 marks**)
  - b. Classification of fires ( **4 marks**)
  - c. Impact of fires (**4 marks**)
  - d. Types of fire extinguishers and their modes of action (**4 marks**)
  - e. Prevention (**4 marks**)
2. Discuss floods under the following subheadings
  - a. Definition (**2 marks**)
  - b. Classification (**3 marks**)
  - c. Causes (**3 marks**)
  - d. Impacts of floods (**6 marks**)
  - e. Flood control methods (**6 marks**)
3. You have been hired by Kakamega Provincial General Hospital to assess the risk of occupational hazards. Briefly outline how you would go about this. (**20 marks**)
4. Discuss confined space under the following subheadings.
  - a. Definition (**2 marks**)
  - b. Hazards of confined space (**7 marks**)
  - c. Control of these hazards (**5 marks**)
  - d. Maintenance of air quality in mines (**6 marks**)