

**JARAMOGI OGINGA ODINGA UNIVERSITY**  
**SCHOOL OF HEALTH SCIENCES**  
**KISUMU LEARNING CENTRE**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF**  
**BSc in Com Health & Dev. with IT/Public Health with IT**  
**2<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER (JAN TO APRIL, 2014)**  
**COURSE: HCD 3216 - OCCUPATIONAL HEALTH AND SAFETY**

**SECTION A: Answer ALL QUESTIONS in this section**

1. **State** any three main principles linked to the definition of occupational health (3 marks)
2. **Name** six examples of electromagnetic radiation that can cause devastating effects to human when exposed to. (3 marks)
3. **Explain** briefly three reasons compelling institutions such as manufacturing industries and factories to observe adherence to occupational health and safety programmes. (3 marks)
4. **Highlight** significance of occupational health and safety committees in the work place. (3 marks)
5. **Describe** what constitute mechanical hazards at the work place. (3 marks)
6. Atmospheric pressure constitutes occupational physical hazards in the working environment with decrease or increase.  
**Determine** effects of hypobaric or hyperbaric pressure to human health. (3 marks)
7. **Clarify** the importance of an occupational safety assessment at the work place. (3 marks)
8. **Elaborate** the concept “Living is fatal” (3 marks)
9. “SAM” is an acronym that encompasses occupational health and safety management.  
**Give** its components (3marks).
10. **Identify** three effects of excessive exposure to organic compounds (3 marks)

**SECTION B: Answer ANY TWO QUESTIONS in this section**

**Q11.** Discuss;

- (i) Principles of risk management in occupational health and safety according to the International Standardization Organization (10 marks)
- (ii) Auditing process in occupational health and safety. (10 marks)

**Q12.**

Discuss effects, control and mitigating measures applicable to any four occupations potentially prone to occupational hazards and risks (20 marks)

**Q13.** Discuss;

- (i) Cost implications of an adverse occupational health and safety incident at the work place to both employer and employee.(12 marks)
- (ii) Properties of chemical hazards that make them potentially harmful. (8 marks)

**Q14.**

Discuss the occupational exposure effects and the mitigating measures that are applicable to the following factors that may be of occupational hazards; (20 mks)

- (a) Extreme temperatures
- (b) Radiation exposure
- (c) Extreme noise
- (d) Persistent organic pollutants