



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY  
SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE  
PUBLIC HEALTH/ COMMUNITY HEALTH AND DEVELOPMENT**

**2<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER 2016/2017 ACADEMIC YEAR**

**KISUMU LEARNING CENTER**

---

**COURSE CODE: HCD 3216**

**COURSE TITLE: OCCUPATIONAL SAFETY AND HEALTH**

**EXAM VENUE:**

**STREAM: (BSc. P. Health / Comm Hlth & Dev)**

**DATE:**

**EXAM SESSION:**

**TIME: 2.00 HOURS**

---

**Instructions:**

- 1. Answer all questions in section A and any other 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**

## **SECTION A (30 MARKS)**

1. Define the following terms ( 1 mark each)
  - i. Occupational health
  - ii. Ceiling exposure value
  - iii. Hazard
  - iv. ALARA
  - v. Occupational illness
  - vi. Medevac
  
2. Hazards can be classified into various classes. Name them. ( 3 Marks)
3. Briefly outline the effects of ionizing radiation upon human health ( 3 Marks)
4. Mention approaches adopted in prevention and control of occupational diseases and injuries ( 3 Marks)
5. Outline 3 duties of employer regarding the implementation of effective OSH policy at workplace. ( 3 Marks)
6. Mentions ways on how ILO promotes occupational safety and health among member states? ( 3 Marks)
7. What is the role of governments in the promotion of occupational safety and health? (3 Marks)
8. Suggest any three control measures applicable to reduction of air pollutants in a working environment. (3 marks)
9. Highlight the concept of risk and uncertainty. (3 marks)

## **SECTION B: (40 MARKS)**

1. Discuss responsibilities of:
  - a) Workers (7 Marks)
  - b) Employers (7 Marks)
  - c) Governments (6 Marks)In the promotion of occupational safety and health in workplace
  
2. Discuss the fundamental elements of OSHA program (20 marks )
  
3. a) Discuss risk management process and ISO principles of risk management (15 marks)  
(b) Identify and describe the purposes of health surveillance of the work place (5 marks).
  
4. a) Discuss direct and indirect cost implications of occupational accidents to the employer and the employee. (12 marks)  
(b) Discuss the principles of occupational health and safety protection. ( 8 marks)