



# MACHAKOS UNIVERSITY

University Examinations for 2020/2021

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (PUBLIC HEALTH)

BACHELOR OF ENVIRONMENTAL SCIENCE

HPH312/HEH304: OCCUPATIONAL HEALTH & SAFETY

DATE: 11/8/2021

TIME: 8:30 – 10:30 AM

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## INSTRUCTIONS:

This paper consists of two sections A and B

### SECTION A

#### Specific Instructions

- This section has one question
- The question is compulsory
- The question is 30 marks

#### QUESTION ONE (30 MARKS)

- a) Define: (3 marks)
- a) Occupational health and safety
  - b) Occupational diseases
  - c) Occupational accidents
- b) Outline the contributions of Bernardino Ramazzini in occupation health (3 marks)
- c) Describe the characteristics of Occupational Safety & Health policy (3 marks)
- d) Explain the roles of Teachers Service Commission in occupational health of teachers (3 marks)
- e) Classify fire and extinguishing agents (4 marks)

- f) Explain the first aid for a worker with a deep cut in a workplace (3 marks)
- g) Highlight the benefits of occupational health to the employer. (3 marks)
- h) Explain the factors you would consider in setting up a job safety analysis at a workplace (4 marks)
- i) Describe the methods to prevent and control risks in a workplace (4 marks)

## **SECTION B:**

### **Specific Instructions**

- **This section has four (4) questions**
- **Answer any two (2) questions**
- **Each question is 20 marks**

### **QUESTION TWO (20 MARKS)**

- a) Describe the activities of occupational health in mining industry. (10 marks)
- b) Exposure of health care workers to biological hazards worsened with onset of COVID-19 pandemic. Critique the preventive and control measures employed by the Kenyan government to protect the health workers from the occupational exposure to COVID-19 (10 marks)

### **QUESTION THREE (20 MARKS)**

- a) Mr. X loses his hand in an accident while operating a machine in a ginnery where he has worked for ten years. He is sacked immediately since he is no longer capable of handling the machine. Advise Mr. X on the appropriate course of action (10 marks)
- b) You are an occupational health specialist engaged to conduct environmental assessment of a construction site. Describe the steps you will take (10 marks)

### **QUESTION FOUR (20 MARKS)**

- a) You are an occupational health consultant for a food processing plant that is in the process of forming a safety committee. Provide a write up to the employer on his duties. (10 marks)
- b) An employee gets burned by a malfunctioning autoclave, critically assess the situation and institute appropriate preventive measures at this level. (10 marks)

**QUESTION FIVE (20 MARKS)**

- a) A cash crop wheat farmer in Kapsabet has newly acquired machines for his operations. In view of this, discuss possible hazards, their modes of exposure and effects and the prevention measure for those hazards (10 marks)
- b) A fire breaks out in a surgical ward of Hospital G where all immobile patients got trapped in the fire and were severely burned. Analyze possible fire preparedness measures that would have averted the witnessed scenario. (10 marks)