



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2016/2017

**FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN POPULATION HEALTH AND BACHELOR OF SCIENCE IN ENVIRONMENTAL
SCIENCE**

HEH 304: OCCUPATIONAL HEALTH AND SAFETY

DATE: TUESDAY 29TH NOVEMBER 2016

TIME: 2.00 P.M. - 4.00 P.M.

INSTRUCTIONS:

- Answer all Questions in section A
- Answer Question 2 and any other TWO Questions in section B

SECTION A

1. (a) Define the following terms as used in Occupational Health and Safety. (4 marks)
 - (i) Job Safety Analysis
 - (ii) Risk Assessment
 - (iii) Hazard
 - (iv) Risk
- (b) Citing relevant examples, distinguish between unsafe acts and unsafe conditions. (4 marks)
- (c) Distinguish between an "Accident" and a "Near Miss" (4 marks)
- (e) Outline four characteristics of fire exit routes. (4 marks)

SECTION B

- Answer Question 2 and any other TWO Questions.
 - Question 2 carries 20 marks, the other questions carry 15 marks each.
2. Records in the Ministry of Labour, Social Security and Services in Kenya indicate that the construction industry recorded the highest number of accidents in the year 2015. Discuss key precautionary measures that should be put in place to prevent accidents to children who may be tempted to gain access to a construction site. (20 marks)

3. The Occupational Safety and health Act, 2007 (OSHA, 2007) provides for duties and responsibilities to different players in the workplace. Discuss any five duties of an occupier as prescribed by OSHA, 2007. (15 marks)
4. Personal Protective Equipment (PPE) is usually considered as the last resort in control of occupational hazards. Discuss. (15 marks)
5. Fire accidents are devastating and negatively affect both employees and owners of businesses.
- (a) Outline any **three** fire prevention goals. (3 marks)
- (b) State and describe **four** fire prevention strategies that should be implemented in order to scale up fire safety in workplaces. (12 marks)
6. State and describe any five hazards that might be encountered by a gardener employed by a local authority parks department. Briefly describe one control measure for each hazard stated above. (15 marks)
