

ENSC 343

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD DEGREE OF
BACHELOR OF COMMERCE**

ENSC 343: ENVIRONMENT AND HEALTH

STREAMS: BSC. ENVIRONMENT Y3 S2

TIME: 2 HOURS

DAY/DATE: THURSDAY 9/04/2020

2.30 P.M - 4.30 P.M.

INSTRUCTIONS

1. Answer all in Section A and any other two in Section B.
2. Do not write anything in the question paper

SECTION A: 30 MARKS

Q1. Using examples, state three routes of exposure to environmental hazards. [3 Marks]

Q2. Explain the following using appropriate illustrations where applicable;

(a) Green house Gas effect [5 Marks]

(b) Ozone layer depletion [5 Marks]

Q3. Briefly discuss the following concepts as used in Environmental and Health.

(a) Pollutants biotransformation [3 Marks]

(b) Persistent organic pollutants [3 Marks]

Q4. Identify the steps involved in carrying out an Environmental Risk Assessment.[4Marks]

Q5. List three institutions which deal with environment and health protection in Kenya, clearly explaining the role of each institution. [6 Marks]

SECTION B [40 MARKS]

Q.6. (a) Describe the health effects associated with exposure to radioactive substances. [10 Marks]

(b) Describe the ways through which indoor air pollution can be reduced. [10 Marks]

Q.7. (a) Describe the hydrologic cycle and explain its importance in Environment and Health. [10 Marks]

(b) Describe the common processes used to disinfect drinking water. [10 Marks]

Q.8. (a) Discuss the factors that contribute to the increase in concentration of heavy metals in urban soils. [10 Marks]

(b) Discuss the exposure pathways and the health risks associated with high concentrations of heavy metals. [10 Marks]

.....