



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
FOURTH YEAR, FIRST SEMESTER**

**SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT**

**BACHELOR OF ENVIRONMENTAL BIOLOGY
AND HEALTH**

COURSE CODE: EBH 402

COURSE TITLE: ENVIRONMENTAL TOXICOLOGY

DATE: 3RD DECEMBER, 2018

TIME: 0830 – 1030 HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in section **A** and any other three in section **B**

This paper consists of 2 printed pages. Please turn over

SECTION A

Answer all the questions in this section (25 marks)

1. Define the following terms;
 - i) Intoxicants (1 mark)
 - ii) Potency (1 mark)
 - iii) Xenobiotic (1 mark)
 - iv) Hazard (1 mark)

2. Distinguish between the following
 - i) Dose and Dosage (2 marks)
 - ii) Toxic symptoms and toxic effects (2 marks)
 - v) Lethal dose low (LD_{LO}) and toxic dose low (TD_{LO}) (2 marks)
 - iv) Acute and Chronic health effect (2 marks)

3. a) Describe the routes and sites of toxic exposure (4 marks)
b) Describe how a dose response curve work and its importance (4 marks)

4. Describe several sources of toxicant in our environment (5 marks)

SECTION B

Answer any 3 (THREE) questions (45 marks)

5. Discuss several factors influencing toxicity of a substance, giving examples on each factor (15 marks)

6. Think of any three body organs that are affected by toxins and discuss at the length the effects brought by various toxins (15 marks)

7. a) Discuss any four main types of toxic effects that can manifest in human beings (8 marks)
b) Discuss how poisons and harmful chemicals are tested and measured (7 marks)

8. Discuss the exposure guidelines, types and their applications in various places in our country (15 marks)

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