



**AFRICA
UNIVERSITY**
A United Methodist-Related Institution

Investing in Africa's Future

**COLLEGE OF SOCIAL SCIENCES, THEOLOGY,
HUMANITIES AND EDUCATION**

HES 327 ENVIRONMENTAL POLLUTION AND CONTROL

END OF FIRST SEMESTER SUPPLEMENTARY EXAMINATION

JANUARY 2020

LECTURER: DR D. MLAMBO

DURATION: 3 HRS

GENERAL INSTRUCTIONS TO CANDIDATES

1. **Do NOT** write your name on the answer sheet
2. Answer **THREE** questions only
3. Question **1** in Section A is **Compulsory**
4. Answer any **TWO** questions from Section B
5. Begin your answer for each question on a new page
6. Each question is worth a total of **25 marks**
7. Credit will be given for neat, well-written and lucid work.

SECTION A

1. Citing specific examples, explain the negative effects of plastic pollution in aquatic environments.

SECTION B

2. Examine any four pathways through which unsustainable agricultural practices can cause water pollution.
 3. Describe fully any four techniques used to control sediment pollution.
 4. With the aid of diagrams, illustrate how the following devices are used to control particulate matter
 - a) Cyclone [9 marks]
 - b) Electrostatic precipitator [8 marks]
 - c) Wet scrubber [8 marks]
 5. Assess the importance of measuring the following parameters to determine water quality:
 - a) pH [7 marks]
 - b) Dissolved oxygen [6 marks]
 - c) Nitrogen [6 marks]
 - d) Turbidity [6 marks]
-