BINDURA UNIVERSITY OF SCIENCE EDUCATION FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

Department of Environmental Science

ESM 415

Solid and liquid waste management BSc SHEM Part IV Examination

TIME: 2 HOURS (70 marks)



INSTRUCTIONS

Answer QUESTION ONE from SECTION A and any other two questions from SECTION B. Ouestion one carries 30 Marks and the rest 20 Marks each.

SECTION A (COMPULSORY)

- 1. In a sustainable waste management system, waste characterisation is an important step that is undertaken before waste is eventually transported for disposal.
 - a) Discuss with the aid of examples factors that affect waste composition (20)
 - b) Explain why waste characterisation is important (10)

SECTION B

- 2. Discuss the effects of poor waste water management systems on the environment (20).
- 3. Discuss why you would choose convectional waste water treatment methods over non-conventional treatment methods. (20).
- 4. Examine the importance of the 'R's in the achievement of sustainable municipal solid waste management (20)
- 5. Unsustainable waste management practices can contribute to climate change. Elaborate. (20)

END OF PAPER