### BINDURA UNIVERSITY OF SCIENCE EDUCATION

# FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

#### **ESM214**

### Department of Environmental Science

BSc Honours in Safety, Health and Environmental Management Part II Examination

Environmental Monitoring, Evaluation and Management

2 HOURS (70 Marks)

E WOV 2024

INSTRUCTIONS TO CANDIDATES Answer question ONE from SECTION A and any TWO questions from SECTION B.

# SECTION A (COMPULSORY)

Describe the six steps used in systems analysis according to Quade and 1(a). Miser (1995).

[15 Marks]

Draw a schematic diagram of the project cycle and explain what happens (b). at each stage.

[15 Marks]

#### SECTION B

What are the challenges developing countries face, and what obstacles 2. prevent assistance in improving air quality?

[20 Marks]

- Explain how the DPSIR model can be used as an analytical framework for assessing 3. [20 Marks] eutrophication and organic pollution.
- Distinguish ESIA from Strategic Environmental Assessment (SEA). 4(a).

[10 Marks]

Explain the importance of the Logical Framework Matrix in environmental (b). monitoring.

[10 Marks]

- Explain in one to two sentences the term Life Cycle Assessment (LCA) and 5(a). [6 Marks] what the overall goals of the technique are.
- Describe the major life stages of a beef burger purchased from a street (b). burger restaurant.

[6 Marks]

(c). What are the inputs, outputs and most important issues at each lifecycle stage? [8 Marks] (You may choose to set out your answer in the form of a table or of bulleted text).

END OF PAPER