

**BINDURA UNIVERSITY OF SCIENCE EDUCATION
DEPARTMENT OF ENVIRONMENTAL SCIENCE**

**BACHELOR OF SCIENCE HONOURS DEGREE IN SAFETY, HEALTH AND
ENVIRONMENTAL MANAGEMENT**

ESM214

**BES PART II EXAMINATION
Environmental Monitoring, Evaluation and Management**

2 HOURS

70 MARKS

INSTRUCTIONS

Answer **three** questions out of the **five** questions. You must answer question **one** from SECTION A, and any **two** from SECTION B.

SECTION A (COMPULSORY)

- 1 (a). Explain the importance of baseline studies in project monitoring and evaluation. **[10 Marks]**

(b). You want to introduce a feeding program at primary schools in your district in Zimbabwe. Identify the key stakeholders and explain their importance. **[20 Marks]**

SECTION B

2. Discuss the advantages to a business or an organisation associated with the adoption of environmentally responsible business practices. Include relevant examples. **[20 Marks]**
3. Discuss the potential application and key steps of Life Cycle Assessment in the context of a manufacturing business. Use one example. **[20 Marks]**

4. A development company wants to drain a wetland in Zimbabwe to make a local town bigger. Four people discuss the proposed draining of the wetland.
- A** Town official: Draining the wetland will provide people with homes, shops and roads.
- B** Scientist: The wetland is an important habitat for several rare species of birds and frogs. If the wetland is drained, the species may become extinct.
- C** Town resident: The wetland should be drained because it is a breeding ground for mosquitoes that spread malaria.
- D** Environmental officer: If we drain the wetland, there will be a greater chance of flooding in the town.

Do you think the wetland should be drained? Support your view with reference to the comments made by the different people.

[20 Marks]

5. (a). Outline the factors that are considered when developing a monitoring program.
- (b). Discuss the four approaches for trade off analysis when evaluating alternatives in Environmental Impact Assessment.
- (c). Explain the qualities of good indicators.

[4 Marks]

[12 Marks]

[4 Marks]

End of paper