BINDURA UNIVERSITY OF SCIENCE EDUCATION

DEPARTMENT OF ENVIRONMENTAL SCIENCE

BSC SAFETY, HEALTH AND ENVIRONMENTAL MANAGEMENT ES 418/AGM 403

BSC PART IV EXAMINATION Environmental Economics

2 HOURS

INSTRUCTIONS

Answer question 1 and any two questions from Section B

SECTION A (COMPULSORY)

1. (a) Explain the following terms in relation to pollution control instruments:

i.	Ancillary benefits	[2 Marks]
ii.	Dynamic efficiency	[2 Marks]
iii.	Dependability	[2 Marks]
iv.	Flexibility	[2 Marks]
v.	Economic efficiency	[2 Marks]
vi.	Long run effects	[2 Marks]
vii.	Cost of use under uncertainty.	[2 Mark]

(b) With the aid of examples, explain the following functions of the environment in relation

to economic activity:

i.	Waste sink.	[2 Marks]
ii.	Resource base.	[2 Marks]
iii.	Amenity service.	[2 Marks]
iv.	Life support.	[2 Marks]

(c) Explain the following concepts in relation to property rights:

i.	Transferability.	[2 Marks]
ii.	Universality.	[2 Marks]
iii.	Exclusivity.	[2 Marks]
iv.	Enforceability.	[2 Marks]

SECTION B

2. Apply the DPSIR framework to any environmental problem in Zimbabwe.

[20 Marks]

- 3. Discuss the economic causes of environmental problems in Zimbabwe. [20 Marks]
- 4. Explain the following valuation methods:

i.	Contingent valuation	[5 Marks]
ii.	Productivity change	[5 Marks]
iii.	Hedonic pricing	[5 Marks]
iv.	Opportunity cost	[5 Marks]

5. Discuss the three categories of pollution control instruments.

[20 Marks]

END OF PAPER