BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

DEPARTMENT OF ENVIRONMENTAL SCIENCES

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

ESM116 (3): INTRODUCTION TO ENVIRONMENTAL SCIENCE

DURATION: 2 HRS

TOTAL MARKS: 70

INSTRUCTIONS TO CANDIDATES
Answer question 1 and any other two.



1. (a) Define the following: (i) Environmental management, (ii) Biological oxygen demand, (iii) Eutrophication, (iv) Greenhouse gas, (v) Particulate matter.	[2 Marks] [2 Marks] [2 Marks] [2 Marks] [2 Marks]
(b) Explain the causes of soil erosion.	[10 Marks]
(c) Outline the potential impacts of climate change on Zimbabwe's natural resources.	[10 Marks]
 (a) Using appropriate chemical equations, describe the processes involved during formation and destruction of ozone in the stratosphere. 	
(h) Evaloin have t	[10 Marks]
(b) Explain how urbanization has contributed to water pollution in Zimbabwe.	[10 Marks]
3. (a) Describe the role of wetlands in purification of polluted aquatic systems.	
(b) Describe the sources the sources	[5 Marks]
(b) Describe the sources, transformations and sinks for any five environmental pollutants.	[15 Marks]
4. Anthropogenic processes are more responsible for climate change impacts than natural processes. Discussion	
impacts than natural processes. Discuss.	[20 Marks]
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EX0012

5. Discuss the socio-economic and environmental advantages and disadvantages of mining for a country.

[20 Marks]

END OF PAPER