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

ESP208: PRINCIPLES OF INDUSTRIAL PROCESSES _ 2

DURATION: 2 HRS

TOTAL MARKS: 70

INSTRUCTIONS TO CANDIDATES
Answer question 1 and any other two.



1. (a) Explain the importance of industrialization to a nation. [10 Marks] (b) With the aid of a flow chart, describe the processes involved in the cement manufacturing industry. [5 Marks] (c) Discuss any five cleaner production practices that can be [15 Marks] applied at a fertilizer manufacturing company. 2. Describe the process control measures you can implement in a beverage manufacturing industry to manage the following: [10 Marks] (a) Air pollution, [10 Marks] (b) Water pollution. [10 Marks] 3. (a) Describe the processes involved in sugar manufacturing. (b) Discuss the process control measures that can be used to reduce environmental pollution from the sugar manufacturing industry. [10 Marks] 4. Explain how environmental impacts from petroleum production [20 Marks] can be managed. [20 Marks] 5. Describe the environmental impacts of the mining industry.

END OF PAPER