

BINDURA UNIVERSITY OF SCIENCE EDUCATION
BACHELOR OF ENVIRONMENTAL SCIENCE DEGREE
ESM114 (X)
BES PART I EXAMINATION
Environmental Chemistry

2 HOURS (70 MARKS)

 **NOV 2023**

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. Explain the differences between the following:
a). primary pollutant and secondary pollutant (5 Marks)
b). point and non-point source of pollution (5 Marks)

c). Discuss the advantages and disadvantages of biofuels as alternative energy sources. (20 Marks)

SECTION B

2. Explain how toxins contribute to water pollution. (20 Marks)
3. Mercury and nitrates cause adverse health problems when present in polluted water. Identify sources of each of these pollutants and explain the health problems they cause. (20 Marks)
4. a). Discuss the sources and sinks of CO. (10 Marks)

b). What are the major ways to control CO pollution? (10 Marks)
5. Discuss the influence and effects of increasing amounts of greenhouse gases in the atmosphere. (20 Marks)

End of paper