

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

2 HOURS (70 MARKS)

 **MAR 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. Discuss the causes and effects of ozone layer depletion. (30 Marks)

SECTION B

2. For a single pollutant (either organic or metal) released into the environment, explain the sources, transport, and fates (including chemical reactions). (20 Marks)
3. Explain the formation of photochemical smog. (Include the environmental conditions and key ingredients in your discussion). (20 Marks)
4. Discuss the advantages and disadvantages of biofuels as alternative energy sources? (20 Marks)
5. Discuss the effects of global warming on the environment (20 Marks)

End of paper