BINDURA UNIVERSITY OF SCIENCE EDUCATION

BACHELOR OF ENVIRONMENTAL SCIENCE DEGREE ESM413

BES PART IV EXAMINATION Air Quality Management

2 HOURS (70 MARKS)



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)

- a. Discuss the causes and effects of ozone layer depletion (15 Marks)
 - b. Explain the difference between monitoring and analysis of ozone layer depletion. (15 Marks)

SECTION B

- 2. a. Discuss the sources and sinks of Carbon monoxide. (10 Marks)
 - b. What are the major ways to control Carbon monoxide pollution? (10 Marks)
- 3. Describe a method for the estimation of the following in an air sample:
 - a. SO₂ (10 Marks)
 - b. NO_x (10 Marks)
- 4. Suggest strategies that may be used to reduce urban air pollution load. (20 Marks)
- 5. a. Discuss the influence and effects of increasing amounts of greenhouse gases in the atmosphere. (10 Marks)
 - b. Discuss the health and environmental effects of polycyclic aromatic hydrocarbons (PAHs) (10 Marks)

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