

- 4a. Highlight five of the main properties of plastics and mention two advantages and disadvantages of each plastic. **(5 marks)**
- b. Classify plastics based on their (i) setting behaviour (ii) chemical composition **(8 marks)**
- c. (i) Explain the chemical process of sulphite pulp manufacture. **(5 marks)**
- d. List two each of the major and minor air pollution. **(2 marks)**

(Overall total = 20 marks)

- 5a. (i) What are the major sources of nuclear waste? **(2 marks)**
(ii) Identify and describe two methods each for managing gaseous, liquid, and solid waste. Include how each method is applied and its purpose. **(6 marks total)**
- b. Discuss the causes and effects of the following environmental issue:
(i) Ozone layer (ii) green house effect (iii) Acid rain (iv) Photochemical smog. **(8 marks)**
- c. Explain the role of flue gas desulfurization in controlling air pollution and discuss its environmental and economic implications. **(4 marks)**

(Overall total = 20 marks)