

MR 378 ENVIRONMENTAL MANAGEMENT AND SAFETY

ANSWER ALL QUESTIONS

Time: 2 hours

Q1 (a) Explain the sources of waste generation in transformation of resources.

(b) The following data is the analysis of water sample from River A

PARAMETER	RIVER A
Biological Oxygen Demand	6000 mg/L
E. Coli	25 counts/10 ml
Suspended Solids	2500mg/L

- i) Explain each parameter that is analysed.
- ii) Comment on the water quality of this river

Q2 (a) Explain the concept of sustainable exploitation of mineral resources.

(b) Briefly explain **the sources** and **environmental impacts** of dust generation.

Q3 (a) What is ergonomics?

(b) Briefly explain how safety issues are managed in mineral processing plants.

(c) Explain Environmental Impact Assessment

Q4 (a) Explain what happens when excessive amounts of nitrates and phosphates are discharged in to water bodies.

(b) Cyanide is toxic and yet it is used in many industrial processes including leaching. Explain how the impact of cyanide toxicity is managed in leaching plants.

E. K. Asiam