



## SECTION A: ANSWER ONE QUESTION

### QUESTION 1:

Critically review the importance of Banded Iron Formation as an ore deposit, and comment on its role in the development of Swaziland both historically and into the future.

**(50 marks)**

### QUESTION 2:

(a) Discuss and distinguish between renewable and non-renewable energy resources. Give examples for their respective use and application

**(25 marks)**

(b) Evaluate the significance and prospects of renewable energy resources for the economic development of Swaziland. Give example

**(25 marks)**

**(50 marks)**

## SECTION B: ANSWER ONE QUESTION

### QUESTION 3:

Discuss the importance of stakeholder participation in water resources planning and management for the future development of Swaziland.

**(50 marks)**

### QUESTION 4:

Using the information presented in Figure 1 write a general mathematical formulation of a linear programming problem to reflect releases from two reservoirs and the flow in a main channel. Explain the formulation, highlighting inherent constraints and assumptions.

**(50 marks)**