



GWANDA STATE UNIVERSITY

FACULTY OF NATURAL RESOURCES MANAGEMENT AND AGRICULTURE

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SCIENCE

PRINCIPLES OF HYDROLOGY

NGE 1103

Final Examination Paper

December 2024

This examination paper consists of 2 pages

Time Allowed: 3 Hours

Examiner's name: Mr. T. Kwami

INSTRUCTIONS

1. Answer any **FOUR** questions
2. Each question carries 25 marks.
3. Credit will be given to answers that are clear, illustrated, concise, and grammatically well-constructed

1. Examine the nexus between hydrology and other geographical disciplines. [25]
2. 'The hydrological cycle has no beginning or end as water is ceaselessly transferred from the sea to the land and back to the sea'. Elaborate. [25]
3. Assess the impact of man on the hydrological cycle. [25]
- 4a. Briefly explain the following concepts of evaporation:
 - i. Actual evapotranspiration. [3]
 - ii. Potential evapotranspiration. [3]
- b. Discuss the view that evaporation is not a loss. [19]
5. Examine the errors associated with rainfall measurement. [25]
6. Assess the linkages between surface and groundwater. [25]

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