

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE AND ENGINEERING

GEOGRAPHY DEPARTMENT

AUG 2023

HBSc EDUCATION DEGREE IN GEOGRAPHY

GG412: HYDROLOGY AND WATER MANAGEMENT

EXAMINATION

TIME: 2¼ HOURS

ANSWER ANY THREE QUESTIONS. USE ILLUSTRATIONS AND DIAGRAMS WHERE RELEVANT. MARKS FOR EACH QUESTION ARE INDICATED IN BRACKETS [].

1. Explain the factors that cause temporal and spatial variations on the water table. [25]
2. Analyse the various water supply management and water demand management strategies that can be adopted locally and regionally for effective management of water resource. [25]
3. Assess the impact of land use on both quality and quantity of water resources. [25]
4. Describe how the hydrological cycle functions as a cascading system with inputs, processes and outputs. [25]
5. (a) Describe the sources of conflicts over the use of water resources. [12]
(b) Evaluate the measures to resolve such water use conflicts [13]