Bago University Department of Geology First Semester Examination, March 2019

Fourth Year (Geology Specialization)

Geol. 4105

Applied Geology I

(Engineering Geology and Hydrogeology)

Time Allowed: (3) Hours

Answer any Five questions with appropriate sketches wherever necessary.

- 1. What are the engineering properties of rocks? Explain any four of them.
- 2. What is dam? Explain the geological investigation of dam site.
- 3. Explain the stability of bridges and geological investigation of bridges.
- 4. Discuss on the environmental consideration of construction of large buildings and large dams.
- 5. Define hydrogeology and fully describe the hydrologic cycle.
- 6. Write notes on the following:
 - (a) Occurrence of groundwater
 - (b) Darcy's law of groundwater motion, specific yield and specific retention
- 7. Write notes on the following:
 - (a) Unconfined aquifer (b) Confined aquifer
 - (c) Leaky aquifer
- (d) Idealized aquifer