

**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA**  
**SCHOOL OF SCIENCE AND SCIENCE EDUCATION**  
**DEPARTMENT OF GEOGRAPHY**

**SECOND SEMESTER 2010/2011 SESSION UNDERGRADUATE EXAMINATION**

**COURSE CODE:** GRY 522 (3 Units)

**COURSE TITLE:** GEOGRAPHY OF WATER RESOURCES

**INSTRUCTIONS:** Answer any 4 questions. Answers **must** where applicable be accompanied by well labeled illustration.

**TIME ALLOWED:** 2½ Hours

1. Discuss the two climatic extremes that may occur if human beings interfere with the hydrologic cycle.
2. Errors of precipitation measurement at a point are usually of the order of several percent for a single storm and range up to 30 percent for poorly exposed gauges in large storms with strong winds, the need to measure precipitation over an area becomes imperative. ( Expatiate)
3. Using specific examples identify and explain the different mechanism of intercepted rainwater movement through the vegetation canopy.
4. Discuss the importance of evaporation as a climatic constraint in the performance of a hydroelectric power dam.
5. Identify and discuss the possible environmental effects of the haphazard drilling of borehole in and around Minna.
6. Using specific case studies identify and discuss the major differences between runoff in Minna and that of Beji.