



**NATIONAL OPEN UNIVERSITY OF NIGERIA  
FACULTY OF AGRICULTURAL SCIENCES  
DEPARTMENT OF CROP AND SOIL SCIENCES**

**EXAMINATION: 2021 SEMESTER POP EXAMINATION**

**COURSE TITLE: WATER SHED HYDROLOGY (2CU)**

**COURSE CODE: SLM310**

**TOTAL SCORE: 70 MARKS**

**TIME ALLOWED: 2hours**

**INSTRUCTION: Answer *THREE* Questions in All. Compulsory question 1 (30marks) and any *TWO* questions (20 marks each)**

**QUESTIONS**

1.

- a. With the aid of diagram, describe fully a drainage basin (15marks)
- b. state the importance of riparian vegetation to watershed hydrology (9marks)
- c. Outline reasons why Collection of runoff water within larger watersheds takes longer time (6marks)

Q2.

List and explain the number of variables that affect the formation and maintenance of a watershed.

Q3

- a. State and explain the ways in which water is released from watershed (10marks)
- b. Describe fully how movement of load is achieved in river (10marks)

Q4.

Discuss in details the concept of Biogeochemical cycling. (20marks)