

**FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI  
SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY  
SOIL SCIENCE AND TECHNOLOGY**

**2015/2016 POSTGRADUATE EXAMINATION**

**COURSE CODE: SST 715**

**COURSE TITLE: HYDROLOGY**

**TIME: 2 HOURS**

**INSTRUCTION: ATTEMPT ANY FOUR (4) QUESTIONS**

**DATE: 3/8/2016**

- 1a Explain the word "Hydrology"
- b List the 7 branches of hydrology and explain any 4 of the branches listed.
- 2 Using text and figure discuss Hydrologic cycle.
- 3 In Hydrologic terms the water inventory equation is stated thus:  $P = Q + E + \Delta s$

Discuss

- 4a Run off causes great harm to the activities of men. Mention 5 such great harm to man
- b State four important questions required to be answered in dealing with the problem of flooding.
- 6 Write short note about these catchment characteristics and their effect on runoff.
  - a Main stream length
  - b Slope of catchment
  - c Shape of the catchment
  - d Annual Average rainfall
  - e Soil Moisture deficit