

BOWEN UNIVERSITY  
PHYSIOLOGY DEPARTMENT  
FACULTY OF BASIC MEDICAL AND HEALTH SCIENCES  
COLLEGE OF HEALTH SCIENCES

FIRST SEMESTER EXAMINATION 2018/19

300 LEVEL, BSc. EXAMINATION

PHS 318: (KIDNEY FUNCTIONS, FLUID AND ELECTROLYTES BALANCE)

Date: Wednesday 9<sup>TH</sup> JANUARY, 2019

Time: 2 Hours

**Instruction**

Answer all the questions below

Answer questions 1 and 2 in a booklet and questions 3 and 4 in another booklet.

**Section A**

1. Write a comprehensive essay on the regulation of sodium ion as an electrolyte (20mks)
2. Write short notes on:
  - a. Micturition reflex (10mks)
  - b. Water balance (10mks)

**Section B**

3. The kidney is more than an excretory organ, Discuss (20mks)
4. Write short essays on the following;
  - a. Renal clearance of a substance (10mks)
  - b. Glomerular filtration barrier (10mks)