BOWEN UNIVERSITY **DEPARTMENT OF PHYSIOLOGY**COLLEGE OF HEALTH SCIENCES

400 LEVEL B.Sc. EXAMINATION Second Semester, 2018/2019 SESSION

MEMBRANE TRANSPORT - PHS 411

DATE: 31st May, 2019

TIME: 3 Hours.

INSTRUCTIONS:

- Answer all questions
- Write your matriculation number clearly on every page of the answer booklet
- 1. Discuss the formation, secretion and modification of bile (20 mks)
- 2. Write short notes on the following:
 - a. Astrocytic transport mechanisms (10 mks)
 - b. Cell membrane proteins and their functions (10 mks)
 - c. Transportation mechanisms in exocrine glands (10 mks)
- 3. The amphibian cyclorana platycephala survives in the desert. Discuss (20 mks)
- 4. Write short notes on the following:
 - a. Patch Clamping (10 mks)
 - b. Transport mechanisms involved in the proximal convoluted tubule (10 mks)
 - Mechanisms of absorption of saccharides and amino acid in the small intestine (10 mks)