

**BOWEN UNIVERSITY, IWO
DEPARTMENT OF BIOLOGICAL SCIENCES**

**2010/2011 FIRST SEMESTER EXAMINATION
BLY 304: LABORATORY PRACTICE IN BIOLOGY**

Answer ALL questions

Time: 2 hrs 20 mins

1. (a) List five methods of preserving animal samples.
(b) Describe how you will use taxidermy to preserve a duck. (10 Marks)
2. Give 10 precautions taken in the laboratory. (10 Marks)
3. Describe the procedure for the study of leaf epidermis. (10 Marks)
4. (a) What is fixation?
(b) Discuss **three** methods of fixation used in animal histology (10 Marks)
5. (a) Differentiate between acidic and basic dyes
(b) If 39g of Potato Dextrose Agar is required to prepare in 100ml of distilled water according to the manufacturers' specification. Describe how you will prepare the agar in 100ml of distilled water. (10 Marks)