BOWEN UNIVERSITY, IWO COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE PURE AND APPLIED BIOLOGY PROGRAMME 2022/2023 FIRST SEMESTER EXAMINATION BLY 305: LABORATORY PRACTICE IN BIOLOGY

Answer ALL questions

Time: 2hrs

- a. Describe briefly how you will operate a fire extinguisher in putting out a fire outbreak.
 - b. Describe the critical steps in the operation of an autoclave in the sterilization process (10 marks)
- 2. Write brief notes on the following:
 - a. General guidelines for effective plant collections on the field

(5 marks)

b. Basic information on a standard herbarium label

(5 marks)

- a. Briefly describe the stages involved in zoological specimen processing with the reagents/ materials needed for each stage. (8 marks)
 - b. List four (4) reasons for preserving zoological specimens.

(2 marks)

4 a. Define each of the following

(5 marks)

- i). Hydrates
- ii). Molality
- iii). Saturated Solution
- iv). Solution
- v). Supersaturated Solution
- b. Highlight five (5) steps involved in the collection of microbiology specimens

(5 marks)

5. Comment on the following:

a. Simple random sampling

(2 marks)

b. Numerical data

(2 marks)

c. Three common statistical tools

(6 marks)