

BOWEN UNIVERSITY, IWO
COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCES
MICROBIOLOGY PROGRAMME
2022/2023 FIRST SEMESTER EXAMINATION

MCB 413: PHARMACEUTICAL MICROBIOLOGY
PRACTICAL

Answer all questions

Time: 1 h

1. (a) A pathogenic bacterial culture contained in the plate labelled with the letter **Q** was tested for antibiotic sensitivity using commercially available antibiotic discs.
 - (i) Measure and record the zones of inhibition for each antibiotic in millimeters **(6 marks)**
 - (ii) Which of the antibiotics will you recommend to the physician for probable use and why? **(7 marks)**

- (b) Describe the **direct inoculation** sterility testing of a **named** pharmaceutical product in a drug-manufacturing company. Give the **disadvantages** of the method. **(12 marks)**