

**BOWEN UNIVERSITY, IWO**  
**COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE**

**MICROBIOLOGY PROGRAMME**  
**2021/2022 FIRST SEMESTER EXAMINATION**

**MCB 409: FOOD AND DAIRY MICROBIOLOGY**  
**PRACTICAL EXAMINATION**

**Instruction: Answer ALL Questions**

**Time: 1h 15min**

1. You are provided with **three** milk samples labelled **A, B** and **C**. Test for microbial contamination by using 0.5ml of methylene blue reagent and record your observations.
  - a. Explain the steps involved in the test above **(7 marks)**
  - b. Suggest a name for the test **(2 marks)**
  - c. Discuss the sanitary conditions of the milk samples A, B and C tested above **(3 marks)**
  
2. A multiple tube test was carried out on two water samples **A** and **B** as provided.
  - a. Using the MPN table provided, record the correct results for each water sample **(6 marks)**
  - b. Comment on the quality of the water samples **(3 marks)**
  - c. Give the names of 4 microorganisms likely to be isolated from the positive samples **(4 marks)**