

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA DEPARTMENT OF MICROBIOLOGY SECOND SEMESTER EXAMINATION, 2019/2020 SESSION MCB 324 (MICROBIOLOGICAL TECHNIQUES) (3 CREDIT UNITS)

INSTRUCTION: Answer any 4 questions in all, two from each section. **TIME:** 2hours 30 min.

SECTION A

- 1(a). What is culture media?
- 1(b). With one example each, give the classification of culture media.
- 2(a). Define pure cultures.
- 2(b). Enumerate the methods used to derive pure cultures.
- 3. Write very short note on the following:
 - (i) Turbidimetric measurements
 - (ii) Gram staining
 - (iii) Citrate utilization test

SECTION B

- 4(a). Explain microbiological Assay and types
- 4(b). Explain microbiological techniques
- 5(a). Explain step by step content a scientific writing
- 5(b). Discuss serology
- 6(a). What is a butter solution
- 6(b). How will you adjust a solute to be a base or an acid