

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF LIFE SCIENCES DEPARTMENT OF MICROBIOLOGY

SECOND SEMESTER EXAMINATION 2014/2015 SESSION

COURSE CODE: MCB 321

COURSE TITLE: GENERAL MICROBIOLOGY II (3 UNITS)

CLASS: 300 LEVEL

INSTRUCTION: Answer any four (4) questions

TIME: 2 Hours

1(a). What roles do aluminium sulphate play in water purification?

- 1(b). Explain how hardness in water could be prevented
- 2(a). Briefly explain the mode of action of chlorine on microorganisms
- 2(b). Explain the disadvantages of using chlorine for water disinfection
- 2(c). How can this be resolved?
- 3(a). Explain the significance of microorganisms in the soil
- 3(b). How would you enhance microbial activities in the soil?
- 4(a). The following microorganisms are responsible for which type of diseases
 - (i) Treponema palladium
 - (ii) Trichophyton metangrophytes
 - (iii) Coccidioides imitis
 - (iv) Candida albicans
 - (v) Filobasidiella neoformans
 - (vi) Entamoeba histolytica
 - (vii) Negative-strand RNA Filoviridae virus
 - (vii) Leishmania tropica
 - (viii) Trypanosoma cruzei
 - (x) Positive-strand RNA Retroviridae virus
- 4(b). Mention the properties that account for intermicrobial transfer in bacteria
- 5. Explain with examples of its uses, the term, transfection
- 6. Give a complete account of the initiation of an infection against the backdrop of a compromised host and the infectious agen