

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

FIRST SEMESTER EXAMINATION 2016/2017 SESSION

COURSE CODE: MCB 411 COURSE TITLE: IMMUNOLOGY AND IMMUNOCHEMISTRY (3 UNITS) CLASS: 400 LEVEL TIME: 2 HOURS

Instruction: Answer question number ONE and any other three questions

- 1. Describe in details with adequate precautionary measures, how widal test can be conducted in the laboratory?
- 2. Explain the biological functions of immunoglobulins
- 3. Write an essay on types II and III hypersensitivity
- 4. Discuss all the pathways of complement activation
- 5. Describe in details antigens and antibodies reactions
- 6(a). Explain primary and secondary immune responses
- 6(b). State the advantages and disadvantages of each