

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF NATURAL AND APPLIED SCIENCES DEPARTMENT OF MICROBIOLOGY

FIRST SEMESTER EXAMINATION 2013/2014 SESSION

COURSE CODE: MCB411 (3 UNITS)

COURSE TITLE: IMMUNOLOGY AND IMMUNOCHEMISTRY

CLASS: 400 LEVEL

TIME ALLOWED: 1hr. 30Mins

INSTRUCTION: Answer any **four** questions in all.

1(a). Explain primary and secondary immune response

- 1(b). What are the advantages of secondary immune response over the primary immune response?
- 2. Compare and contrast the classic and mannan binding lectin pathways. (Schematic diagrams of the two pathways is important)
- 3(a). Define Immunoglobulin
- 3(b). Mention four immunoglobulins and explain their role in the defense of the body
- 4. Discuss Types III, II and I hypersensitivity reaction
- 5. Explain in details the concept of an antigen
- 6. Write short notes on the following:
 - (a) Hapten
 - (b) Autoimmunity
 - (c) Monoclonal Antibody
- 7. Write short notes on adaptive immunity.