



**OLABISI ONABANJO UNIVERSITY, P.M.B. 2002, AGO-IWOYE, OGUN STATE, NIGERIA. FACULTY OF SCIENCE
DEPARTMENT OF MICROBIOLOGY,**

**2017/2018 HARMATTAN SEMESTER EXAMINATION
MCB 303: IMMUNOLOGY AND IMMUNOCHEMISTRY.**

INSTRUCTION: ATTEMPT ANY THREE QUESTIONS

TIME: 1hr.30minutes

1a. Give a brief description of lymphoid system

1b. Explain the role of any two of the following in immune response: i Thymus ii. Lymph nodes
iii. Mucosa associated lymphoid tissue

2a. Define the following terms: i Antigen ii. Adjuvant iii. Epitope iv. Valence v. Hapten

2b. List and briefly explain factors influencing Immunogenicity

2c. Differentiate between Innate and Adaptive immunity

3a. Draw a well labelled diagram of Antibody

3b. List all the classes of immunoglobulins and their functions

3c. Differentiate between antibody Affinity and Avidity

4a. Briefly explain the following immunologic terms: i. Allergic reaction ii. Allergen

iii. Opsonization iv. Immune complex

4b. What are the factors that determine the degree of the response in hypersensitivity reaction?