



**ELIZADE UNIVERSITY,  
ILARA-MOKIN, NIGERIA**

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

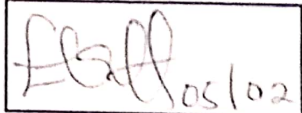
FIRST SEMESTER EXAMINATION

2019/2020 ACADEMIC SESSION

COURSE CODE: BCH 313

COURSE TITLE: IMMUNOLOGY AND IMMUNOCHEMISTRY

DURATION: 2 HOURS

 05/02/2020

HOD's SIGNATURE

NAME:.....

MAT.  
No:.....

INSTRUCTIONS: ANSWER ANY 2 QUESTIONS FROM EACH SECTION.

## QUESTIONS

### SECTION A

- 1a. What are the cells of adaptive immune response and explain their roles in antigen presentation and development of antibodies.
- b Describe with examples your understanding of the lymphoid system?
- c. Differentiate between Antigen and immunogen. (15marks)
2. In a sentence describe the following immunology terms:
- i. Haptens; ii. Chemokines; iii. Major Histocompatibility Complex (MHC); iv. Antigen Presentation; v. Interferons; vi. Inflammation; vii. Cytokines; viii. Adjuvants; ix. Phagocytosis; x. Complement; xi. Transferrin and Lactoferrin; xii. Epitope; xiii. Defensin. (15marks)
- 3a. Using a stepwise order of event in infection, describe the role of phagocytes in innate immune response.
- b. Describe innate and acquired immune response and states the differences between the two types of immunological response.
- c. Mention and explain with examples the different types of antigens. (15marks)

### SECTION B

1. a) Describe the chemical basis of antigen-antibody interactions using cross reactivity.
- b) Explain the application of agglutination reaction using WIDAL test.
- c) Briefly explain the effects of antigen-antibody interactions. (15marks)
2. a) Briefly discuss the immunology of HIV.
- b) Explain the two types of tolerance
- c) Explain any three (3) factors that influence immunity and infection in man. (15marks)
3. a) Describe with an example immediate type of hypersensitivity.
- b) Explain any two types of auto-immune disorders.
- c) In a tabular form, outline the differences between autoimmunity and hypersensitivity. (15marks)