



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

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2020/2021 ACADEMIC SESSION

COURSE CODE: BCH 313

COURSE TITLE: IMMUNOLOGY AND IMMUNOCHEMISTRY

COURSE UNIT: 3 UNITS

HOD's SIGNATURE

DURATION: 2 HOURS

NAME:.....

MAT. No:.....

**INSTRUCTION: ANSWER FOUR (4) QUESTIONS; TWO (2) FROM EACH
SECTION**

Section A

1. a.) Differentiate between autoimmune diseases and hypersensitivity in a tabular form.
- b.) Describe opsonization and neutralization as a type of antigen-antibody reactions. **15 Marks**
2. a.) Explain the term vaccination.
- b.) What are immunoglobulins? List the types of the immunoglobulins you know **15 Marks**
3. a.) List any three (3) types of T cells and describe any one of them.
- b.) Explain hypersensitivity and list the four types **15 Marks**

Section B

- 1a. Describe with examples your understanding of the lymphoid system?
- b. Describe the T cells with respect to types, characteristic and function (diagram based illustration will attract more marks). **15 Marks**
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**15 Marks**
- 3a. What are the components of the innate immune system?
- b. Describe the order of events in pathogen elimination during innate immune response
- c. Mention and explain with examples the different types of antigen **15 Marks**