



NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science

DEPARTMENT OF BIOLOGICAL SCIENCES

2024 1 EXAMINATION

COURSE CODE: BIO 318

COURSE TITLE: IMMUNOLOGY AND IMMUNOCHEMISTRY

CREDIT UNIT: 3 UNITS

TIME ALLOWED: 3 HOURS

INSTRUCTION: INSTRUCTION: Answer Question ONE (1) and any other THREE (3)

Questions

- 1a. In a tabular form differentiate innate and adaptive immune response base on their components? (8mrks)
- b. Explain in details the types of Adaptive Immune Response? (7mrks)
- c. Write concisely on Active and Passive Immunity? (5mrks)
- d. State the postulates of clonal selection theory? (5mrks)
- Total marks = 25mrks**
- 2a. Outline the two morphological types of resting lymphocytes that can be distinguished? (5mrks)
- b. Briefly describe the Development of T-Lymphocytes in Thymus? (10mrks)
- Total marks = 15mrks**
- 3a. Write short note on Pathology of Autoimmunity?
- b. Write concisely on the following:
- (i). Transplant Tolerance? (5mrks)
- (ii). Immunosuppressive Therapy? (2mrks)
- (iii). Calcineurin Blockers? (3mrks)
- Total marks = 15mrks**
- 4a. Explain in details the recent techniques in immunology? (10mrks)
- b. Discuss in details the recent technique in immunochemistry? (5mrks)
- Total marks = 15mrks**
- 5a. State the class of drugs in Antiparasitic agents which are used for the treatment of parasitic diseases? (8mrks)
- b. State the Enzymes found only in parasites in antiprotozoal agents? (3mrks)
- c. Outline the four approaches that serve as a bioassay guide in drug discovery research? (4mrks)
- Total marks = 15mrks**
- 6a. Write short notes on the following
- (i). Pharmacodynamics (6mrks)
- (ii). Pharmacokinetic (5mrks)
- b. List the processes of pharmacokinetics involved in drug action? (4mrks)
- Total marks = 15mrks**