



NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE
EXPRESS WAY, JABI - ABUJA.
FACULTY OF SCIENCE
April 2019, EXAMINATIONS

BIO 318: Immunology and Immunochemistry III

TIME: 2½ Hours

Credit Units: 3

INSTRUCTION: Answer FIVE questions in all .Question 1 is compulsory

- 1a. List 7 organs of the lymphoid organs found in the human body. (7 marks)
- 1b. Explain the four distinct phases in the cell cycle division process. (6 marks)
- 1c. Write briefly on the Type 1 hypersensitivity reaction. (9 marks)

2. Discuss the major features of the adaptive immune response. (12marks)

3. Describe the role of vaccines in the prevention of infectious diseases. (12marks)

4. Enumerate 8 criteria that should be met by a Primary Bioassay. (12marks)

- 5a. What is pharmacodynamics? (3 marks)
- 5b. Recount the various Mode of Action of drugs (9 marks)

6. Write on the impact of the following on Self-immunity
 - a. genetics (6 marks)
 - b. sex (6 marks)