



NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, Plot 91 Cadastral Zone, Nnamdi Azikiwe Express Way,
Jabi - Abuja.

FACULTY OF SCIENCE

2017_1 Examinations

BIO 318: Immunology and Immunochemistry III

TIME: 2½ Hours

INSTRUCTION: Answer five questions in all .Question 1 is compulsory and any other four

- 1a.i Define the term “Biological Assays”. (1mark)
 - ii. Enumerate the approaches that serve as a bioassay guide in drug discovery research. (4marks)
 - b. It is not an unusual occurrence that tissues are rejected after transplant. Discuss the types of rejection of transplants that may occur. (12marks)
 - c. i. Name the Scientist who proposed the clonal selection theory (1mark)
 - ii. State the postulates of the clonal selection hypothesis (4marks)
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- 2a.What are immunoglobulins? (4marks)
 - 2b.With the aid of a detailed diagram, explain the structure of the antibody (8marks)
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3. Using appropriate illustrations where necessary describe the series of events that occur when the body is exposed to an antigen. (*Marks will be awarded for clear illustrations*) (12marks).
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4. Explain the processes of pharmacokinetics(12marks)
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- 5a. Clarify the term ‘Adaptive immune response’(3marks)
 - b. Discuss the properties of the adaptive immune response (9 marks)
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- 6a. Define the term ‘Hypersensitivity’ (I mark)
 - b. Using a well-illustrated table only, explain the various forms of hypersensitivity reaction (11marks)