

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

2017_2 Examinations

BIO 318: Immunology and Immunochemistry III(3 Credit Units)

TIME: 2½ Hours

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

1a List 4 purposes for drug bioassay (4marks)

- b. Explain the four distinct phases in the cell cycle division process.(4marks)
- c Describe four new techniques used in immunochemistry (6marks)
- d.State the postulates of the clonal selection hypothesis (4marks)
- e. List four cellular components and four secreted components of the innate immune system (4marks)
- 2a. List four techniques involved in the determination of bioassays methods (2marks) b. Enumerate 10 criteria that should be met by a primary bioassay (10marks)
- 3. Write a brief history of chemotherapy (12marks)
- **4.** Explicate the activities of the following immunosuppressive agents utilized in transplant rejection.(12 marks)
- a. CalcineurinBlockers (Ciclosporin and Tacrolimus)
- b. AntiproliferativeAgents (Azathioprine and MycophenolateMofetil)
- c. Corticosteroids
- d. m-TOR Inhibitors (Sirolimus and Everolimus)
- 5. Describe the events that occur in the body during a primary exposure to an antigen. (marks will be awarded for a clearillustration)(12 marks)
- 6.Explain six properties of the adaptive immune response.(12 marks)