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

2022 2 EXAMINATION

BIO 318: Immunology and Immunochemistry

Credit: 3 Units

Time allowed: 2½ hours

INSTRUCTION: Answer FOUR 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. (6marks)
- c Describe four new techniques used in immunochemistry (6marks)
- d. State the postulates of the clonal selection hypothesis (6marks)
- e. List THREE cellular components and THREE secreted components of the innate immune system (3marks)
- 2 Outline 10 criteria that should be met by a primary bioassay (15 marks)
- 3. Write a brief history of chemotherapy (15 marks)
 - i. Karl Landsteiner
 - ii. Elvin Kabat and colleagues
 - iii. Linus Pauling
 - iv. Paul Ehrlich
 - v. Ilya Ilyich Mechnikov
- 4. Highlight the contributions of the following scientist in the field of Immunology and Immunochemistry
 - i. Karl Landsteiner (3 marks)
 - ii. Elvin Kabat and colleagues (3 marks)
 - iii. Linus Pauling (3 marks)s
 - iv. Paul Ehrlich (3 marks)
 - v. Ilya Ilyich Mechnikov (3 marks)
- 5. Describe occurrence in the body during a primary exposure to an antigen.

(Marks will be awarded for a clear illustration) (15 marks)

6. Discuss the relationship between cell division and malignant tumor progression (15 marks)