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## NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Sciences Department of Pure and Applied Sciences JUNE, 2020 EXAMINATIONS

**COURSE CODE: BIO406** 

COURSE TITLE: PARASITOLOGY AND IMMUNOLOGY

**CREDIT: 2 units** 

TIME ALLOWED: 2 Hours

INTRUCTION: Answer question ONE (1) and any other THREE (3) questions

- 1. Write succinctly on the following:
  - (i) Infection (5mks)
  - (ii) Specific Humoral Immunity Resistance to infection (8mks)
  - (iii) Non-specific Resistance to infection (12mks)
- 2(a) What are: (i) Antigens (6mks)
  - (ii) Immunogens (3mks)
- (b) Highlight the steps involved in procession and presentation of endogenous antigens to T-cells. (6mks)
- 3(a) What is hypersensitivity? (2mks)
- (b) Discuss on the following types of hypersensitivity reaction
  - i. Type I: Immediate Hypersensitivity (7mks)
  - ii. Type II: Cytotoxic Hypersensitivity (6mks)
- 4(a) Draw and label a typical diagram of Immunoglobulin. (4mks)
- (b) Discuss the factors affecting measurement of antigen-antibody reactions. (4mks)
- (c) What are the genetic factors affecting autoimmunity (3mks)
- (d) What do you understand by Humoral Immunity? (4mks)
- 5(a) Succinctly explain the concepts of Autoimmunity (3mks)
  - (b) What are the theories that help explain immunological tolerance? (6mks)
  - (c) List any six of the mechanisms that are operative in the pathogenesis of autoimmune diseases. (6mks)