



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI, ABUJA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCE
2025_2 EXAMINATIONS.

COURSE CODE: EHS316

COURSE TITLE: IMMUNOLOGY AND IMMUNIZATION

COURSE UNITS: 2 CREDIT UNITS

TIME ALLOWED: 1 ½ HOURS

TOTAL SCORE: 70 MARKS

INSTRUCTION: ANSWER ALL QUESTIONS

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| 1 | (a) Describe the nature of antibodies | 10 marks |
| | (b) How are antigen used in disease diagnosis? | 5 marks |
| | (c) Write briefly on the term blood group | 5 marks |
| 2 | (a) What do you understand by the term hypersensitivity? | 5 marks |
| | (b) Write short notes on types of hypersensitivity reactions | 15 marks |
| | (c) List at least five (5) diseases associated with hypersensitivity reactions | 5 marks |
| 3 | (a) Discuss vaccines | 5 marks |
| | (b) In a tabular form differentiate between active and passive immunization | 16 marks |
| | (c) Define the term cold-chain management. | 4 marks |