



**NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF HEALTH SCIENCES, JABI, ABUJA
DEPARTMENT OF PUBLIC HEALTH SCIENCE
SEPTEMBER 2020_1 EXAMINATION**

COURSE TITLE: Introduction to Clinical Laboratory Techniques (PHS303)

COURSE UNITS: 2 Units

TIME ALLOWED: 1½ Hours

TOTAL MARKS : 70%

INSTRUCTION: Answer all the Questions

QUESTION 1 22 marks

- 1a). Define 'Test Utilization' *1mark*
- b). Mention three examples of medical tests. *3marks*
- c). With specific examples, explain the following:
 - (i) Diagnostic test *5marks*
 - (ii) Screening test *5marks*
 - (iii) Monitoring test *3marks*
- d). Write short note on 'Vaccine-preventable diseases' as one of the preventive measures in the control of diseases. *5marks.*

QUESTION 2 25 marks

- 2a). With seven specific examples, briefly explain the term 'Environmental diseases.' *(10marks)*
- 2b). Write short note on 'Chemoprophylaxis' as a preventive measure. *(5marks)*
- 2c). With specific examples, explain the term 'Inherited diseases.' *(10marks)*

QUESTION 3 23 marks

- 3a). In clinical chemistry, some factors that affect the correctness of test results, do originate from blood collections. Mention four of the factors. *(4marks)*
- 3b). Outline six precautions, one should adopt in order to avoid haemolysis of red blood cells while collecting blood for clinical chemistry analysis. *(6marks)*
- 3c). Mention three types of urine specimens that are suited for analysis in clinical chemistry laboratory. *(3marks)*
- 3d). Write short notes on: (i) Venepuncture (ii) Haemolysis of Red Blood Cells. *(10 marks)*