



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**UNIVERSITY VILLAGE, PLOT 91, CADASTRAL ZONE**  
**NNAMDI AZIKIWE EXPRESS WAY, JABI, ABUJA**  
**FACULTY OF HEALTH SCIENCES**  
**DEPARTMENT OF PUBLIC HEALTH SCIENCE**  
**EXAMINATION QUESTIONS 2021\_2**

**COURSE TITLE: INTRODUCTION TO CLINICAL LABORATORY TECHNIQUES**

**COURSE CODE: PHS303**

**COURSE UNITS: 2 Units**

**TIME ALLOWED: 1½ Hours**

**TOTAL MARKS: 70%**

**INSTRUCTION: Answer all the Questions**

**QUESTION 1    25marks**

**(1a)** Using suitable examples explain the following:

- (i) Explosive chemicals    **5marks**
- (ii) Radioactive chemicals    **5marks**
- (iii) Fire Blankets    **5marks**

**(b)** Describe the 3Rs of reporting result in Clinical Laboratory    **10marks**

**QUESTION 2                    20marks**

**(2a)** Microscopic examination of urine is performed on urine Sediment. With reference to this statement of truth, explain wet preparation of urine    **5marks**

**(b)** Write short notes on:

- (i) Gram positive Bacteria    **5marks**
- (ii) Gram negative Bacteria    **5marks**

**(c)** Briefly describe faeces as a specimen in Clinical Laboratory    **5marks**

**QUESTION 3                    25marks**

**(3a)** Write short notes on:

- (i) 10% formal saline    **5marks**
- (ii) Sodium acetate    **5marks**
- (iii) Polyvinyl alcohol fixative    **5marks**
- (iv) Merthiolate-Iodine Formalin    **5marks**

**(b)** Explain the word “**Consistency**” in the examination of stool sample in Clinical lab.    **5marks**