



**NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MAY/JUNE 2012 EXAMINATION**

CHS 303: INTRODUCTION TO CLINICAL LABORATORY TECHNIQUES
TIME ALLOWED: 2HOURS

INSTRUCTIONS: Read the questions carefully. There are six questions to answer four. All questions carry equal marks (25%) each.

QUESTION 1

- a. What is a clinical laboratory? (5marks)
- b. Discuss the four major divisions of clinical laboratory. (20 marks)

QUESTION 2

- a. Define diagnosis. (5marks)
- b. List the laboratory universal safety precautions to be observed in a clinical laboratory. (20marks)

QUESTION 3

- c. Define diagnostic skills. (2marks)
- d. Discuss the laboratory diagnosis of diseases. (23marks)

QUESTION 4

- a. Define clinical specimen. (1mark)
- b. Mention the examples of preparations patients are expected to do prior to specimen collection.(12 marks)
- c. What type of different urine specimens will you advice a patient to collect according to a specific ailment investigation? (12 marks)

QUESTION 5

- a. With the use of a table, show the internationally agreed colour codes for blood specimen containers for laboratory tests. (25 marks)

QUESTION 6

- a. Define the following: Laboratory Techniques, Optical Techniques, Electrochemical Techniques, Chromatography, Electrophoresis (10 marks)
- b. How do you carry out urine pregnancy test using pregnancy test strips? (15 marks)