



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

**COURSE CODE: CHS303**

**COURSE TITLE: Introduction to Clinical Laboratory Techniques (2 units)**

**TIME ALLOWED: 2 Hours**

**INSTRUCTION: Read the questions carefully. There are six questions to answer four. All questions carry equal marks (17 ½ %) each**

**QUESTION 1**

- a. Discuss clinical examination. (10 marks)
- b. What are Medical Tests? (7 ½ marks)

**QUESTION 2**

- a. How many groups of diseases do we have? (4 ½ marks)
- b. Explain them. (10 marks)
- c. List the tests that require overnight test. (3 marks)

**QUESTION 3**

- a. From which part of the body do you collect blood for laboratory test? (6 marks)
- b. What is the step involved in obtaining an appropriate, identified blood specimen for laboratory test called? Explain further. (6 marks)
- c. How many types of urine specimens do we have? List them. (5 ½ marks)

**QUESTION 4**

- a. With the use of a table, describe the internationally accepted colour codes for blood specimen containers for laboratory tests. (17 ½ marks)

**QUESTION 5**

- a. List some important techniques employed in the clinical laboratory analysis (4 marks)

- b. Discuss the four major divisions of clinical laboratory. (13 ½ marks)

**QUESTION 6**

- a. Define the following: Electrophoresis, Optical Techniques, Chromatography, A microscope and Centrifugation(7 ½ marks)
- b. How do you carry out urine pregnancy test using pregnancy test strips? (10 marks)