

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI  
SCHOOL OF PHYSICAL SCIENCE (SOPSC)  
DEPARTMENT OF SCIENCE LABORATORY TECHNOLOGY  
RAIN SEMESTER EXAMINATION: 2014/2015  
STC 508: INSTRUMENTAL METHODS OF ANALYSIS  
TIME ALLOWED **2** HOURS DATE:.....

**INSTRUCTION: ANSWER ANY FIVE QUESTIONS**

**Question 1**

List four most important factors usually considered in selection of a suitable machine used in a biochemistry laboratory.

How do you calibrate it for suitability in the biochemistry laboratory measurements or quantitations of colours of solutions?

20 marks

**Question 2**

List four biochemical instruments of analysis or four instruments used in your chosen option and state the functional component parts of those instruments.

20 marks

**Question 3**

Write short notes on the following terms:-

- (i) Accuracy
- (ii) Precision
- (iii) Blank
- (iv) Standard

20 marks

**Question 4**

What is the importance of blank in a biochemical method of analysis? Equally state the importance of standard.

20 marks

**Question 5**

How do you sample methods? State clearly significance of laboratory results.

20 marks

**Question 6**

State the nature of samples for biochemical analysis. How do you treat them to conform with prescribed way of analysis.

20 marks

**Good Luck**