

BOWEN UNIVERSITY, IWO
(Of the Nigerian Baptist Convention)

COLLEGE OF HEALTH SCIENCES
MEDICAL LABORATORY SCIENCE PROGRAMME

2021/2022 FIRST SEMESTER EXAMINATION

MLS 401: LABORATORY MANAGEMENT AND FUNCTIONS; TIME: 2HR 30MIN

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE

START EACH QUESTION ON A NEW PAGE

ALL QUESTIONS CARRY EQUAL MARKS

1. a. List two (2) statistical tools used in biomedical research for testing significance level (5 marks)
b. Explain the sentence, “There is statistically significant difference in the mean value of ‘X’ at 95% confident interval (CI)” (5 marks)
c. List 2 criteria for accepting a null hypothesis at 95% CI? (5 marks)
d. State two (2) types errors that may be associated with a research hypothesis (5 marks)
e. Enumerate five (5) reasons for record keeping in the laboratory (5 marks)
2. Explain the objectives of laboratory management with respect to personnel, equipment and materials (25 marks)
3. Explain how errors and an unethical conduct such as delay in carrying out laboratory requested investigations on patients’ samples can lead to Medical Legal Case (25 marks)
4. Discuss in details the term ‘Quality management system’ (QMS) in Medical Laboratory Science. Your answer should include definitions, elements, and the importance of QMS (25 marks)
5. a. Describe the process involved in the implementation of corrective action in the Medical Laboratory. (15 marks)
b. Explain the followings terms:
 - i. Stock control and Inventory (5 marks)
 - ii. Record-keeping (5 marks)