



**ELIZADE UNIVERSITY,
ILARA-MOKIN, NIGERIA**

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2020/2021 ACADEMIC SESSION

COURSE CODE: MCB 205

**COURSE TITLE: MICROBIOLOGICAL TECHNIQUES AND
LABORATORY PRACTICES**

COURSE UNIT: 2



HOD's SIGNATURE

DURATION: 2 HOURS

NAME:.....

MAT. No:.....

INSTRUCTION: ANSWER ANY THREE (3) QUESTIONS

1. a.) List the properties of light and state how they are applied in microscopy

b.) Using an annotated diagram, show the relationship between amplitude and wavelength

2. a.) Briefly explain the following: i.) Reflection; ii) Absorbance iii) Transmittance

b.) List five (5) factors that affect image characteristics in microscopy

3. a.) List five (5) types of microscopes and list five (5) parts of microscope and their functions in a tabular form.

b.) Explain briefly the meaning of magnification and resolution.

4. What is staining? List any four (4) major types of staining in microbiology.

b.) Explain simple staining techniques.

5. a.) Explain differential staining with examples

b.) Explain the mechanism of sterilization by ionizing radiations.