



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

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

SECOND SEMESTER EXAMINATION

2017/2018 ACADEMIC SESSION

COURSE CODE: BIO 208

COURSE TITLE: CELL BIOLOGY AND HISTOLOGY

DURATION: 2 HOURS

HOD's SIGNATURE

NAME:.....

MAT. No:.....

**INSTRUCTIONS
ATTEMPT ANY THREE QUESTIONS**

1a. Compare and contrast plant and animal cells.

b. What are the contribution(s) of the following Scientists to the study of cell.

i. Robert Hooke

ii. Henri Milne-Edwards

iii. Anton Van Leeuwenhoek

iv. Franz Bauer

v. Keith Porter

vi. Rudolf Virchow

vii. Theodore schwann

viii. Matthias Schleiden

2a. List two functions of each of the followings:

i. Xylem

ii. Parenchyma

iii. Collenchyma

iv. Sclerenchyma

v. Phloem

vi. Cork

vii. Epidermis

b. Briefly discuss “ stem cells”.

3a. List and explain the steps involved in cell histological processes.

b. What are the functions of the following organelles in the cell:

i. Mitochondrion

ii. Smooth Endoplasmic Reticulum

iii. Ribosomes

iv. Protoplast

4a. Draw and label a Plant cell

b. List and discuss five types of proteins that you have studied with example(s) where necessary.

5a. Draw and label an Animal cell

b. Write briefly on the followings:

i. Polysaccharide

ii. Eukaryotic and Prokaryotic cells

iii. Types of RNA

iv. Lysosome

v. Apical Meristem