

ELIZADE UNIVERSITY, ILARA-MOKIN, NIGERIA

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

SECOND SEMESTER EXAMINATION

2017/2018 ACADEMIC SESSION

COURSE	CODE:	BIO	208
		שוטו	400

COURSE TITLE: CELL BIOLOGY AND HISTOLOGY

DURATION:

2 HOURS



HOD's SIGNATURE

NAME:	•	***********	

MAT. No:	•••••		

INSTRUCTIONS ATTEMPT ANY THREE QUESTIONS

- la. 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