

UNIVERSITY OF BAMENDA

FACULTY OF SCIENCE

FIRST SEMESTER EXAMINATION FOR 2011/2012 SESSION

DEPARTMENT: Biological Science

COURSE INSTRUCTORS: Salah, Niba

COURSE CODE: BIO 201

COURSE TITLE: Cell Biology

DATE: Wed 27/06/2012

TIME ALLOWED: 3 Hours

DURATION: 8:00-11:00



INSTRUCTIONS: *Answer all the Questions*

- (1) (a) Some of the differentiated structures of plant and animal cells are cell walls, plasma membranes, chromosomes, chloroplasts, mitochondria, and spindle fibers. Discuss four of these with respect to: 1) function and 2) physico-chemical nature .
- (b) Compare the intermediate steps in the fermentation of a molecule of sugar by yeast with respiration in a muscle tissue cell. Include in your answer the role of ATP formed in each of these two processes.
- (c) Discuss the gene, with regard to structure, duplication, mutation, and nature of action.
- (d) The process of photosynthesis consists of two phases, the light reactions and the dark reactions. Discuss each of these groups of reactions and their interrelationships.

(4 x 10 = 40 Marks)

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