



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

INSTITUTIONAL BASED PROGRAMME (IBP) DECEMBER SESSION

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SBT 100: CELLULAR BASIS OF LIFE

DATE: FRIDAY 29TH APRIL

TIME: 4.30 P.M – 6.30 P.M

INSTRUCTIONS:

Answer ALL Questions in SECTION A and ONE Question in SECTION B.

Answers in SECTION A should be written in the space provided on the question paper.

SECTION A-

SHORT ANSWER QUESTIONS (5 MARKS EACH)

1. Explain five unique properties that make water “the fluid of life”

2. Describe the simplest forms of life and explain if you consider Viruses to be alive or not.

3. Compare Pangenesis with Germplasm theory.

4. What do you understand by the following terms?

a) Coacervate

b) Homunculus

c) Acrosome

d) Placebo

e) Phylogenesis

5. Give five statement of the modern cell theory.

6. Briefly discuss plastids

7. Briefly describe cells under the following:

a. Types

b. Sizes

c. Structures

d. Numbers

e) Shapes

8. Using illustrations, explain why the Golgi Apparatus is referred to as the most changing cellular organelle.

SECTION B:

ESSAY QUESTIONS (ANSWER ONLY ONE QUESTION 30 MARKS)

1. Discuss the steps and process of Scientific Method.
2. Evaluate various theories on the origin of life on earth.
3. Write an essay on the genetic materials.