

P. O.Box 845-50400 Busia(K) principal@auc.ac.ke Tel: +254 741 217 185 +254 736 044 469 off Busia-Malaba road

OFFICE OF THE DEPUTY PRINCIPAL ACADEMICS, RESEARCH AND STUDENT AFFAIRS

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER REGULAR EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION (SCIENCE)

COURSE CODE: CIM 321

COURSE TITLE: BIOLOGY EDUCATION II

DATE: 10th DECEMBER 2019

TIME: 9.00 AM - 12.00 PM

INSTRUCTION TO CANDIDATES

SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

CIM321: BIOLOGY EDUCATION II

STREAM: BED (SCIENCE)

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

- i. Answer Question ONE and any other TWO questions.
- ii. Do not write on the question paper.

Question 1

- a. Explain FOUR ways in which biology has contributed positively to the welfare of humankind (4Marks)
- b. Identify SIX positive attitudes that should be developed in students through learning biology.

(6 Marks)

- c. (i) Differentiate between expository and inquiry approach of teaching biology (2 Marks)
- (ii) Highlight the advantages and disadvantages of guided inquiry-based approach of teaching biology

(4Marks)

- d. Explain THREE factors to be considered when putting up a biology laboratory (3Marks)
- e. Give considerations to be made when sequencing topics in a scheme of work
 (3 Marks)
- f. Explain the importance of the following facilities in the teaching of biology
 - (i) Vivarium
 - (ii) Aquarium
 - (iii) Herbarium (3 Marks)
- g. Outline FOUR factors to be considered when locating a biology laboratory (4 Marks)

Question Two

a. What is meant by the following documents in preparation for biology teaching

(i) Syllabus (4 Marks)

(ii) Schemes of work (3 Marks)

(iii) Lesson plan (3 Marks)

b. Explain five principles that guide the selection of content in a syllabus (10 Marks)

Question Three

Outline the aims of the following projects in the historical development of biology curriculum in Kenya

a. Biological Science Curriculum Study (5 Marks)

b. Nuffield Science Project (6 Marks)

c. UNESCO Pilot Project (9 Marks)

Question Four

a. Differentiate between a teaching approach and teaching method in biology (2 Marks

b. Explain THREE advantages and three disadvantages of each of the following methods of teaching in biology

(i) Lecture method (6Marks)

(ii) Demonstration method (6 Marks)

(iii) Practical method (6Marks)

Question Five

a. Explain FIVE criteria that a teacher of biology should consider when selecting biology text books (10 Marks)

b. (i) Differentiate between the terms assessment and evaluation (2 Marks)

(ii) Explain FOUR considerations a biology teacher should put in mind when preparing a practical examination. (8 Marks)
