

CHUKA



UNIVERSITY

## UNIVERSITY EXAMINATIONS

### EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION, BACHELOR OF EDUCATIO SCIENCE

#### EDCI 341: METHODS OF TEACHING BIOLOGY

**STREAMS: BSC (AGED), BED (SCI)**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 14/04/2020**

**8.30 AM – 10.30 AM**

#### INSTRUCTIONS:

#### Answer Question One and any other Three

1. (a) Differentiate the terminologies as used in teaching biology.
    - (i) Lesson plan and records of work [2 marks]
    - (ii) Cognitive learning and affective learning. [2 marks]
    - (iii) Teaching approach and teaching technique. [2 marks]
    - (iv) Syllabus and lesson plan. [4 marks]
  - (b) State 6 key characteristics of team teaching. [6 marks]
  - (c) Give 6 importances of a lesson plan to a biology teacher. [6 marks]
  - (d) Outline 3 limitations of the School Science Project Biology (SSPB) syllabus introduced by the East African Educators in 1970. [3 marks]
2. (a) Using relevant examples discuss any 4 facilities used in biology teaching. [8 marks]
  - (b) Explain 7 importance of including practical's in the secondary biology curriculum as a method of teaching. [7 marks]

3. (a) Outline 5 factors that a biology teacher should consider when choosing an instructional method. [5 marks]
- (b) Discuss 2 main approaches applicable in teaching of biology. [10 marks]
4. (a) Outline the criteria that should be used to identify specimen or real objects used in teaching of biology. [4 marks]
- (b) Outline 5 characteristics of learner centred approaches. [5 marks]
- (c) Give 6 advantages of group teaching in secondary school biology. [6 marks]
5. Using relevant examples discuss how biology contributes to achievement of the National goals of Education in Kenya. [15 marks]
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