

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE  
IN AGRICULTURAL EDUCATION AND EXTENSION

EDCI 341: METHODS OF TEACHING BIOLOGY

STREAMS: BSC (AGED)

DAY/DATE: FRIDAY 09/7/2021

TIME: 2 HOURS

11.30 A.M. – 1.30 P.M.

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INSTRUCTIONS: Answer question ONE and any other THREE

1. (a) Distinguish between the following terms
    - (i) Syllabus and scheme of work [4 marks]
    - (ii) Teaching method and teaching approach [2 marks]
    - (iii) Peer teaching and group teaching [4 marks]
    - (iv) Progress report and records of work [2 marks]
  - (b) Enumerate four importance of individual teaching as a teacher centered approach [4 marks]
  - (c) When would a biology teacher use realia/specimen in teaching and learning biology [6 marks]
  - (d) Outline three advantages of using simulations and games in teaching biology [3 marks]
2. (a) Assuming you have been contracted to train biology teachers on preparing a scheme of work. What are some of the important factors to consider that you would emphasize on. [7 marks]
  - (b) Highlight eight importance of preparing a lesson plan to a biology teacher [8 marks]

## EDCI 341

3. (a) What are the five factors that a biology teacher should consider when choosing an instructional method. [5 marks]
- (b) Discuss problem solving approach used in biology teaching and learning [10 marks]
4. (a) State five factors that determine effective learning in biology [5 marks]
- (b) Highlight six features of a project method used in teaching and learning biology [6 marks]
- (c) Outline four disadvantages of using field visits as a method in teaching biology [4 marks]
5. (a) Discuss eight general purposes of teaching biology in schools [7 marks]
- (b) Describe any four facilities used in teaching and learning biology [8 marks]
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