



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

SPECIAL EXAMINATIONS
THIRD YEAR EXAMINATION FOR THE AWARD OF THE
DEGREE OF BACHELOR OF EDUCATION (ARTS)
SECOND SEMESTER, 2021/2022
(FEBRUARY - JUNE, 2022)

EDCI 334: METHODS OF TEACHING BIOLOGY

STREAM: Y3 S2

TIME: 2 HOURS

DAY: THURSDAY, 11:30 – 1:30 P.M.

DATE: 21/07/2022

INSTRUCTIONS

- 1. Do not write anything on this question paper.***
- 2. Answer question ONE (Compulsory) and any other TWO questions.***

QUESTION ONE

- Explain two ways in which biology as a subject has served as a potential for misuse. [5 marks]
- Biology teaching relies heavily on the process skills. With reference to specific examples explain four manual skills and their applicability in the teaching and learning of biology [8 Marks]
- Explain the various factors that dictate the choice of a teaching method in biology [10 marks]
- Lecture method is often regarded as inappropriate in teaching Biology as a Subject. Explain seven suggestions on how you can improve the lecture method while teaching biology. [7 marks]

QUESTION TWO

- a). What is a scheme of work? [2 marks]
- b). Explain the importance of a scheme of work to a biology teacher. [12 Marks]
- c). Explain three ways of concluding a lesson. [6 Marks]

QUESTION THREE

- a) Discuss the importance of assessment in the process of teaching and learning of biology [10 marks]
- b) Describe how you would use the following skills to enhance biology classroom instruction:
- i) Stimulus variation [5 marks]
 - ii) Reinforcement of learners' responses [5 marks]

QUESTION FOUR

- a. Explain the considerations that a biology teacher should make when preparing a lesson plan. [5 Marks]
- b. With suitable examples, briefly explain the role of questioning as used in biology classroom [5 marks]
- c. Under which circumstance would you opt to use demonstration as a method of instruction in Biology [6 marks]
- d. Discuss the contribution of biological knowledge to the Kenyan society [4 Marks]

QUESTION FIVE

- a. Considering the context in which you are teaching, with suitable examples discuss the advantages of stating objectives for teaching. [10 Marks]
- b. Outline considerations in designing a Biology laboratory in relation to hazards [10 Marks]