



UNIVERSITY EXAMINATIONS

2ND SEMESTER 2023/2024 ACADEMIC YEAR

THIRD YEAR EXAMINATION FOR THE DEGREE
OF BACHELOR OF EDUCATION (ECDE)

EDCI 334: BIOLOGY SUBJECT METHODS

STREAM: R

TIME: 2 HRS

DAY: TUESDAY (2.30-4.30PM)

DATE: 9/4/24

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

**PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS
SO.**



INSTRUCTIONS: Answer question **ONE** and any other **TWO** questions

QUESTION ONE (30 MARKS)

- a)) Discuss 4 key changes in content and methodology in competence based curriculum (CBC) compared to 8-4-4 system (8mks)
- b) Explain 4 types of teacher made tests that a teacher of biology sets for effective assessment in biology: (12 mks)
- c) Explain two reasons why a teacher of biology needs to constantly update class notes. (2 mks)
- d) “Nutrition in plants and animals” is a topic in Biology syllabus that is taught to form one students in Kenya. Prepare a detailed 40 minutes lesson plan that a teacher of biology can use for effective learning in a classroom (8 mks)

QUESTION TWO (20 MARKS)

- a) Competence based curriculum (CBC) focus is on seven (7) core competencies. Discuss two key skills a learner is expected to demonstrate under each of the core competence (14 mks)
- b) Explain the importance of biology as a science subject in Kenyan secondary school curriculum (6mks)

QUESTION THREE (20 MARKS)

- a) Behaviorism theory is a view in which behavior can be explained by external factors and behavioral conditioning. Explain five ways this theory is applied in learning of biology in school. (10mks)
- b) c) Explain five (5) factors a biology teacher should consider while selecting textbooks for use in classroom teaching/learning (10mks)



QUESTION FOUR (20 MARKS)

- a) List 4 qualities of a good achievement test (4 mks)
- b) Explain 3 purposes of conducting national examinations. (6mks)
- c) How can a teacher enhance lecture teaching method so that learners become active participants? (10 mks)

QUESTION FIVE (20 MARKS)

- a) Discuss the steps a teacher of biology would follow when using Think, Pair and Share as a method of teaching. (10mks)
- b) Discuss 5 reasons why a teacher of biology should choose Heuristic approach of teaching (10mks)

