

# KENYA CERTIFICATE OF BASIC EDUCATION (K.C.B.E)

GRADE 10

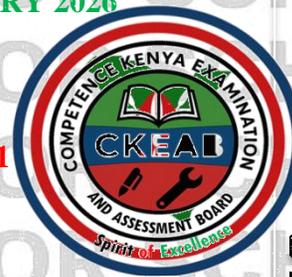
BIOLOGY (Theory)

TERM 1

JANUARY 2026



Time: 1 Hour 30 Minutes



**COMPETENCE ASSESSMENT EXAMINATION CKEAB 001**

**LEARNER'S DETAILS**

Name: \_\_\_\_\_

School: \_\_\_\_\_

Assessment Number: \_\_\_\_\_ Date: \_\_\_\_\_

School Code: \_\_\_\_\_ Signature: \_\_\_\_\_

## INSTRUCTIONS TO LEARNERS

1. Write your name, assessment number, class and date on all the answer sheets provided.
2. Answer all the questions in the spaces provided.
3. Use a blue or black pen for writing. Pencils should be used only for drawings and diagrams.
4. Make your drawings neat, clear, and large, and label them correctly using ruled lines.
5. Section A requires short answers – be brief and precise.
6. Section B requires longer explanations and reasoning – write clearly and in detail.

### SECTION A: (30 Marks)

Question	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	TOTAL (30)
Maximum score	2	2	3	4	4	2	2	3	2	2	30
Learners score											

### SECTION B: (40 Marks)

Question	Q11	Q12	Q13	Q14	TOTAL (40)	GRAND TOTAL
Maximum score	10	8	12	10	40	70
Learners score						

### Performance Levels Grid

Level	Level	% Range	Points	Learner's score
Exceeding (EE)	EE1	90–100%	8	
	EE2	75–89%	7	
Meeting (ME)	ME1	58–74%	6	
	ME2	41–57%	5	
Approaching (AE)	AE1	31–40%	4	
	AE2	21–30%	3	
Below (BE)	BE1	11–20%	2	
	BE2	1–10%	1	

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Turn over

-Biology-

-001-

-Senior School-



**SECTION A: (30 Marks)**

*Answer all questions in this section.*

1. During a lesson, the teacher explained that Biology is the foundation of careers such as medicine, agriculture, and veterinary science.

Define Biology. (2 marks)

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2. A student researching Biology found that it can be divided into major fields of study. State two broad branches of Biology.(2 marks)

a) .....

b) .....

3. The diagram below shows some simple apparatus used in collecting small insects.



- i) identify the apparatus labelled A and B

A: .....

B: .....

- ii) Name one apparatus that can be used to collect small flying insects. (1 marks)

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4. A school career guidance teacher advised learners to choose courses wisely and gave examples of jobs requiring Biology knowledge.

List four careers one can pursue after studying Biology. (4 marks)

- a) .....
- b) .....
- c) .....
- d) .....

5. Name the branch of Biology that deals with:

- a) Study of microorganisms..... (1 mark)
- b) Study of heredity and variation..... (1 mark)
- c) Study of insects .....(1 mark)
- d) Study of classification of living things..... (1 mark)

6. During a field trip, learners collected grasshoppers and leaves. The teacher emphasized proper storage to avoid decay.

State two reasons why it is important to preserve specimens properly. (2 marks)

- a) .....
- b) .....



7. A student compared a motor vehicle and a living organism. Give two characteristics of living things that motor vehicles lack. (2 marks)

- a) .....
- b) .....

8. Match each of the following apparatus with its correct use: (3 marks)

Apparatus	Use
(a) Pooter	Used for trapping ground-dwelling insects or small animals
(b) Pair of Forceps	Used for collecting small crawling insects without harming them
(c) Pitfall trap	Used for picking up small delicate animals without direct hand contact



9. During a field collection of insects, the teacher reminded students to be careful. State any two precautions that should be taken when collecting specimens. (2 marks)

a) .....

b) .....

10. A Biology teacher asked students to explain how different branches of Biology specialize. Differentiate between Zoology and Botany.(2 marks)

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**SECTION B: (40 Marks)**

*Answer all questions in this section.*

11. Biology plays an important role in society.

(a) Explain four reasons why the study of Biology is important in everyday life. (8 marks)

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(b) Outline two international conventions that have benefited from biological knowledge. (2 marks)  
(10 marks)

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12. A group of students collected a plant specimen during a field trip for further study in the laboratory.

(a) Describe the steps taken in processing and preserving the plant specimen. (6 marks)

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(b) Explain why only the required number of specimens should be collected. (8 marks)

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13. During practical lessons, learners develop important life skills.

(a) Discuss five scientific skills that are developed through the study of Biology. (10 marks)



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(b) Explain two ways Biology is useful in agriculture. (2 marks)

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