

1918/206

1919/206

FAUNA, FLORA AND ENVIRONMENTAL STUDIES

July 2023

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN TOUR GUIDING OPERATIONS

CRAFT CERTIFICATE IN TOUR GUIDING AND
TRAVEL OPERATIONS

MODULE II

FAUNA, FLORA AND ENVIRONMENTAL STUDIES

3 hours

INSTRUCTIONS TO CANDIDATES

*This paper consists of **TWO** sections: **A** and **B**.*

*Answer **ALL** the questions in section **A** and any **FOUR** questions from section **B** in the answer booklet provided.*

Maximum marks for each part of a question are as shown.

Candidates should answer the questions in English.

This paper consists of 3 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A (32 marks)

Answer ALL the questions in this section.

1. Name **three** ecological pyramids that exist in an ecosystem. (3 marks)
2. State **four** differences between white and black rhinos. (4 marks)
3. State **four** characteristics that help waterbirds to survive in the environment. (4 marks)
4. List **three** types of amphibians found in an ecosystem. (3 marks)
5. Name **four** insects that undergo complete metamorphosis. (4 marks)
6. List **three** plants that can be found in a marine ecosystem. (3 marks)
7. State **three** characteristics that differentiate plants from animals. (3 marks)
8. State **three** rules that should be followed when visiting a national park. (3 marks)
9. State **three** uses of roots in plants. (3 marks)
10. Give **two** examples of mammals that are odd toed. (2 marks)

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SECTION B (68 marks)

*Answer any **FOUR** questions from this section.*

11. (a) Outline **six** roles played by forests in an ecosystem. (9 marks)
- (b) Explain **four** factors that have led to the reduction of snakes in ecosystems. (8 marks)
12. (a) Explain **six** threats to mangroove forests along the East African coastal region. (9 marks)
- (b) Outline **four** ways in which fish are adopted to exist in their natural environment. (8 marks)
13. (a) Explain **six** measures that the government takes to reduce conflicts between people and wildlife in conservation areas. (9 marks)
- (b) Outline **four** contributions made by conservation organizations in protection of wildlife. (8 marks)
14. (a) Describe **four** activities that support conservation of natural resources in destinations. (8 marks)
- (b) Explain **six** benefits of eco-tourism to the local communities in Kenya. (9 marks)
15. (a) Explain **six** factors that are taken into account when starting a butterfly farm project. (9 marks)
- (b) Describe **four** ways in which living organisms benefit from one another. (8 marks)

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