

SECTION A (32 marks)

Answer ALL the questions in this section in the spaces provided after each question.

1. State the **three** rules followed in binomial nomenclature during classification. (3 marks)

2. Identify **two** types of herds in the social organization of the African Elephant. (2 marks)

3. Identify **four** major groups of birds found in East Africa. (4 marks)

4. State **four** amphibian families found in East Africa. (4 marks)

5. State **three** ways in which insects may be harmful to mankind. (3 marks)

6. Identify **three** types of corals found in the marine ecosystem. (3 marks)

7. State **three** elements that are necessary for photosynthesis to take place in plants. (3 marks)

8 Identify **three** types of terrestrial ecosystems found in East Africa. (3 marks)

9. Identify **three** categories of organizations involved in environmental education in Kenya. (3 marks)

10. List **four** categories of ecotourism practices. (4 marks)

SECTION B (68 marks)

*Answer any **FOUR** questions from this section in the spaces provided after question 15.*

11. (a) You are guiding a group of tourists in an animal orphanage when you come across a leopard and a cheetah. Explain to the tourists **six** features that differentiate the two animals. (9 marks)
- (b) Living things show some interdependence in acquisition of food. Describe **four** types of such interdependence. (8 marks)
12. (a) You are guiding a group of school children who have visited an education center and have shown interest in insects. Explain to them **six** characteristics of insects. (9 marks)
- (b) Explain **four** reasons for environmental conservation. (8 marks)
13. (a) Bird watching is a popular activity with some tourists. Describe **four** characteristics of birds that may interest the tourists. (8 marks)
- (b) Explain **six** ways in which tourism development affects marine life. (9 marks)
14. (a) Explain **four** reasons why reptiles and amphibians are relatively less popular as tourist attractions in Kenya. (8 marks)
- (b) You are guiding a group of tourists in the coast circuit when you encounter a mangrove forest. Explain to the tourists **six** ways in which mangrove is beneficial to mankind. (9 marks)
15. (a) Highlight **six** ways in which the development of ecotourism may adversely affect local communities. (9 marks)
- (b) Explain **four** ways in which the Kenyan government facilitates environmental conservation in the country. (8 marks)