Name:---------- Index No. ----------/----------

School:---------- Candidate's Signature----------

Date:----------

231/3
BIOLOGY
Paper 3
(Practical)
July / August 2016
Time: 1¾ Hours

KERICHO WEST JOINT EVALUATION EXAMINATION

KENYA CERTIFICATE OF SECONDARY EDUCATION (K.C.S.E)

BIOLOGY
Paper 3
PRACTICAL
1¾ Hours

Instructions to Candidates

1. Spend the first 15 minutes of the 1¾ hours allowed for the paper reading through the paper before commencing your work.
2. Answer all the questions in the spaces provided after each question.

For Examiner's Use Only

Question	Maximum Score	Candidate's Score
1	14	
2	13	
3	13	
Total Score	40	

1. The photograph below shows a natural habitat in an ecosystem. Examine the photograph and answer th questions that follow.

a) Distinguish between the term 'Ecosystem' and 'habitat'. (2 marks)

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b) i) Name the type of habitat shown in the photograph. (1 mark)

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ii) Give two observable reasons for your answer in b(i). (2 marks)

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c) State two environmental stress factors that plants in this habitat experience. (2 marks)

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d) Explain two observable features that adapt the plants shown in the photograph to this habitat. (4 marks)

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e) Other than the features in 1(e) above, state any three other adaptations of the plants in this habitat. (3 marks)

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2. You are provided with two specimens A and A. Study them carefully and answer questions that follow.

a) i) Name the kingdom, phylum and class to which they belong. (3 marks)

Kingdom .....

Phylum.....

Class .....

ii) State reasons for the phylum and class named in a(i) above. (4 marks)

Phylum	Class

iii) State any two observable differences between A and A. (4 marks)

A_1	A_2
i) ii)	

b) State the reason for lack of haemoglobin in the blood of organisms belonging to the class named in a (i) above. (2 marks)

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3. You are provided with specimen labelled R which was grown in the dark.
a) Identify any four parts of the specimen and state their functions. (4 marks)

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b) i) Give the name used to describe the biolo_ i phenomenon that have taken place on the specimen R. (1 mark)

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ii) State the biological significance of the phenomenon in b(i) above. (1 mark)

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c) i) Cut off the shoot of the specimen R given in.
Crush the shoot on a white tile using glass rod and using reagents provided, carry out food test and record observation and conclusion in the table below. (6 marks)

Food test	Procedure	Observation	Conclusion

ii) Account for the results obtained in the food test above. (2 marks)

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