

# GATUNDU SOUTH JOINT EVALUATION EXAM

NAME.....INDEX NUMBER.....

231/3

BIOLOGY

PAPER 3

(PRACTICALS)

JULY/AUGUST 2018

1<sup>3</sup>/4 HRS

## INSTRUCTIONS

- (a) Write your name and index number in the spaces provided above
- (b) Answer all questions in the spaces provided
- (c) You are required to spend the first 15 minutes of the 1<sup>3</sup>/4 hrs around for this paper reading .the whole paper carefully before commencing your work.
- (d) This paper consists of four printed pages.
- (e) Additional papers must not be inserted.
- (f) Answer all questions in English.

For examiners use only

Question	Maximum score	Candidates score
1	14	
2	12	
3	14	
Total score	40	

1. Study the photograph labeled **Z** of some animals in a certain ecosystem and answer the questions that follow.

(a) State the type of biotic relationship shown in the photograph. (1mark)

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(b) Identify which of the two animals **M** and **N** will have the least biomass. (1 mark)

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(c) Give **two** reasons for your answer in (b) above. (2 marks)

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(d) Explain the concept of “survival for the fittest” in relation to the organisms in photograph **Z** (3 marks)

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(e) Explain three visible survival adaptive features for the organisms. (6 marks)

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2. You are provided with a food sample labeled solution Q. Using the reagents provided; carry out tests to identify the food substance present in the sample [12mks]

TEST FOR	PROCEDURE	OBSERVATION	CONCLUSION

3.(a) In the table below name the mode of dispersal and the features that adapt the specimen(s) to that mode of dispersal. (12 marks)

SPECIMEN	MODE OF DISPERSAL	ADAPTIVE FEATURES
A		
B		
C		
D		
E		
F		

(a) (i) State the type of placentation in specimen A (1 mark)

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(ii) Name the structure labeled K in specimen E (1 mark)

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