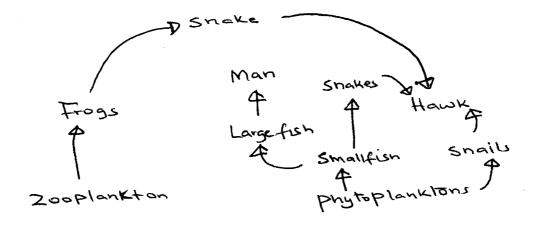
GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU. FORM 3 BIOLOGY MID TERM EXAMINATION. TERM 2 2016.

<u>FORM</u>	3 BIOLOGY MID TERM EXAMINATION. TERM 2 2010.				
Name:		_adm:	_class:		
Answer all the questions.					
1.	The diagram below represent a feeding relationship in an	ecosystem.			



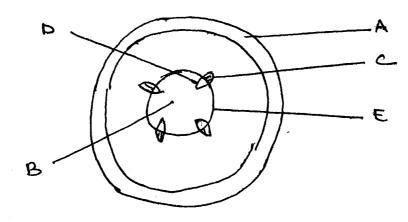
a) Distinguish between a food chain and a food web. (2mks

- b) Name the type of ecosystem represented by the above food web. (1mk
- c)Name the organisms in the food web that are producers.

(2mks

Corrective mechanism P Rise Hormal alucose Normal Glocose 1-2001. level Explain what happen during corrective mechanism P i) (3mks Name 2 organs involved in corrective mechanism p and Q ii) (2MKS p Q Why should glucose level be maintained constant. iii) (2mks

3. The diagram below represent a transverse section of a young stem.



i) Name the parts labeled

(2mks

Α

- В
- ii) State functions of the part labeled.

(4mks

D

C

iii) Name the compound that dissociate to release to release oxygen in humans.

(1mk

iv) Name the blood vessel that has the highest concentration of Urea.

(1mk

v) Name the blood vessel that nourishes the heart.

(1mk

4a) Define the following terms

(2mks

i) Photosynthesis

(2mks

ii) Chemosynthesis

(2mks

b) Study the diagram below and answer the questions that follow.

Lect B Soci

i) What is destarching

(2mks

ii) Giving reasons, state the expected results when leaf A and B are tested for starch.

Leaf A

(1mk

Reason:

(2mks

Leaf B

(1mk

Reason

(2mks

5. As part of a study of population growth, an investigator put 16g and 64g of maize flour (food) in two equal boxes K and L respectively. She then introduced equal numbers of flour beetles into the boxes. Both boxes were kept under similar environmental conditions. The beetles were counted at certain intervals and the results tabulated as shown.

Number of days after introduction of beetles	A proximate number present in	of individuals.
0	K	L
5	20	20
40	200	20
60	550	300
80	560	800
100 120	650	1300 1750
35	640	1600
50	650	1900
	645	1500

- a) Using the set of results draw two graphs on the same axes to present the above data.(Imks
- b) What were the approximate number of individuals present in the two boxes on the $90^{\rm th}$ day?
- i) Number in K (2mks
- ii) Number in L (2mks
- c) On what day was the population difference greatest. (2mks

d)	Account for the shapes of the two graphs between the 1 st and the 100 th day. (4mi		
6.	PART II - ASSECT AND THE BACK OF THIS TO Describe the disease schistosomia (20mks)	swer ether question >=9 e). sis under the following subheading	s. 6 or 7 at
i)	Species of schistosoma causing th	e disease.	(4mks
ii)	Mode of transmission	(10mks	
iii)	Effect on host	(4mks	
iv)	Prevention and treatment	(2mks	
7.	i) State the functions of the skin	(4mks	
ii)	Explain how the various parts of th	e skin is adapted to its function.	(16mks