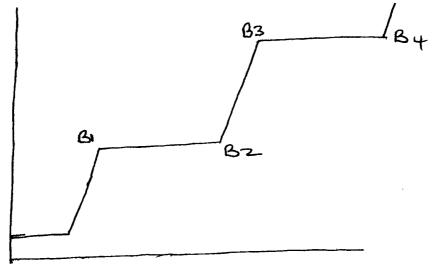
GATITU SECONDARY SCHOOL, P.O. BOX 327 - 01030, GATUNDU.					
	4 BIOLOGY MID TERM EXAMINATION		CLASS:		
NAME: 1. and an	The diagram below show the base se swer the questions that follow.	ADM: equence of part of a nucleic acid			
U —	T — T — A —G — C _	G A			
i).	What does each of the letters above A	represent. (4mks			
	Т				
	С				
	G				
ii)	State whether its RNA or DNA stran	d: with a reason (2mks			
iii) a)	Show the complementary DNA strand	(2mks			
·					
b)	RNA strand	(2mks			

2. Study the graph below which shows growth Curve obtained in Arthropods.



i) Name the type of graph represented above.

(1mk

- ii) Identify the phases between
- a) B1 B2

(1mk

b) B2 - B3

(1mk

- iii) Name the harmone responsible for
- i) Formation of larva cuticle

(1mk

2. Use the figures below to answer the questions.

Age in Years Birth	Height in cm 50.4	Weight in kg 3.3
1	75.00	10.3
2	87.2	12.6
3	96.0	14.5
4.	104.0	16.0
5	111.0	18.6
6	115.5	22.0
7	123.5	25.0
8.	130.0	27.3
9.	135.5	30.0
10.	141.0	33

The table shows measurement of height and weight of individuals of different ages. Study it

- a) Draw two graphs using the same axes to show height & weight against different ages. (10mks
- ii) Calculate the percentage growth in height between.
- i) year 1 2

(2mks

ii) Year 2 - 3

(2mks

iii) year 3 - 4

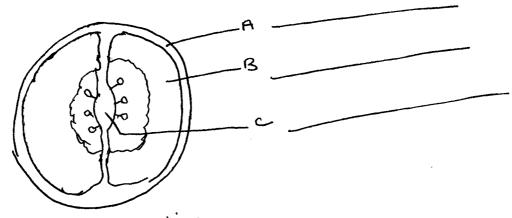
(4mks

iv) year 4 - 5

(4mks

(د	In which period is there the highest growth percentage rate?	(2mks
3. in the (5mks	In drosophila, straight wings are dorminant over curved wings. W F:1 generation of crossing a homozygous straight winged fly and a	hat would be the result a curved wing fly.
b) worki	What would be the result in the F:2 generation of crossing two of ng) (4mks	f the F:1 flies. (show
c)	How would you determine the genotype of one of the F2 straigh	t winged flies. (2mks

The diagrams below show different types of plantation, Label parts A -C



placentation

- b) Identify type of place fit above.
- c) State 3 advantages of a sexual reproduction

 ci_{j}

'n

(iil)