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ROLL No;

SCHOOL NAME:

Somaliland National Examination and Certification Board

Republic of Somaliland

FORM FOUR

EXAMINATION

Biology

June 2018

TIME: 2 HOURS

Plus 10 minutes for reading through the paper

INSTRUCTIONS TO CANDIDATES:

- This paper consists of 12 printed pages with the cover page.
- Inform the invigilator if there are any missing or extra pages.
- Answer ALL questions
- · All answers must be written in the spaces provided.
- If you make a mistake, cross out the incorrect answer clearly and write your correct answer.

PART ONE: 20 MULTIPLE CHOICE QUESTIONS

[40 MARKS]

PART TWO: 5 Structured Quostfons

[60 MARKS]

TOTAL

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[100 MARKS]

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Somdilland National Examination and Certification Board

Use this page for rough work. It will <u>NOT</u> be marked.	

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Part One Multiple choice Questions

(40 marks)

- 1. Cytopfasm
 - a) Is Only Found in animai cells
 - b) Is important in initiating cell division
 - c) is the place where chromosomes are found
 - d) is the place where many ceil reactions occur
- 2. Which of the following Is not produced as a result of Photosynthesis
 - a) Oxygen
 - b) Glucose
 - c) Starch
 - d) Carbon dioxide
- 3. Whicfi of the following are necessary for photosynthesis
 - 1. Carbon dioxide 2. Chlorophyll 3, Energy 4-Nitrogen
 - 5, Oxygen 6, water
 - a) 1,2,3.4
 - *>) 2,3,4,5
 - c) 3,4,5,6
 - d) 1,2,3,6
- 4. Which of the following Vitamins can the body make for itself?
 - a) Vitamin A
 - b) Vitamin B
 - c) Vitamin C
 - d) Vitamin D
- 5. Movement of which of the following is **Not** necessary for breathing to occur,
 - a) Ribs
 - b) Sternum
 - c) Mouth
 - d) Diaphragm
- 6. the vertebrate brain originates from;
 - a) Ectoderm
 - b) Endoderm
 - c) Mesoderm
 - d) Both mesoderm and Ectoderm



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061	tinication board	=101-35 =101-101
	Stage in mitosis in which the two sets of singled the opposite poles of the spindle is called:	stranded chromosomes are moving
	Anaphase	
50%	Interphase	
	Metaphase	
100	Telophase	
	nemical reaction that has a positive delta g is tec	hnically known as a(an).
a)	Exergonic	
	Endorganic	
c)	Exothermic	
d)	Spontaneous	
9. Whi	ch concept most completely describes the role of	f an organism in an ecosystem
a)	Habttas	
b)	Niche	
c)	Web	
d)	Chemical Cycle	
10 Pe	tals have swelling called	at their base.
a)	Pistil	
272.5	Nectaries	<u></u>
2.0	Pedical	OMBIOLOGY4U
123.55	Stamen	Learning Made Easy For more Biology
11. Blo	ood Group with no antigens is	notes, online exams and Form 4 past
a)	Blood group O	exams, simply visit
3,555	Blood group A	Ombiology4u.
	Blood group S	
	Blood group AB	
12	is the relationship between	en two different organisms that both
benefit	from each other	n de mente de mente de la transportación de la transportación de la deligión deligión de la deligión deligión de la deligión de la deligión de la deligión deligión de la deligión deligión de la deligión deli

- a) Commensal ism
- b) Parasitism
- c) Mutuaisim
- d) Symbiosis saprophytism

Ce	ertification Board		QloEogy Examination
13.		in disorder or bad functioning (malfun	ction of mind) of body
	leads to departure of		A CONTRACTOR CONTRACTOR ASSESSMENT OF THE STATE OF THE ST
a)	Disease		
	physical disease		
c)			
d)			
14	2007	_ sick animals are deliberately isolated fro	m heafth animals
a)	Quarantine		
b)	Proper feeding		
c)	Sanitation		
d)	Calling		
15		is an immunity developed from antibodie	es or antitoxins, provided
	outside of the body		
a)	Active immunity		
b)	Passive immunity		
c)	natural immunity		
d)	artificial immunity		
16		is the study of inheritance and how the	e characteristics of living
things	are transmitted from	one generation to the next.	
a)	Chromosome		
b)	gene		
c)	genome		
d)	genetics		
17. wł	nich of the following is	s not true about enzymes	
a)	enzymes are protein	าร	
b)	an enzyme can be u	used over and over again	6.
c)	an enzyme can cata	alyze any reaction	·
d)	high temperature af	fects enzyme activity	OMBIOLOGY4U Learning Made Easy
18. th	e dental formula of ar	adult human being is	For more Biology

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19, The	DNA	code for	CGAtCytosine,	guanine,	adenine)	would	be	transmitted	from	the
nucleus	into	cytoplasm	as the messer	nger RNA	code wor	d				

- a) GTC
- b) TCG
- c) GAU
- d) GCU
- 20. The elements carbon, nitrogen, oxygen and hydrogen would be found in
 - a) Glucose
 - b) Fat

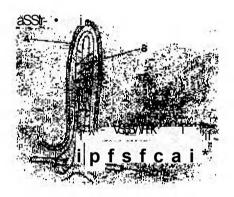
A.

- c) Amino acids
- d) Starch

Part Two Structural Questions

(60 marks)

1. the diagram below shows the structure of a single villus.



Where would you expect to find this structure in the gut?	(2 Marks)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
B, Name two chemicals passing through part C after a meal?	(2 Marks)
many comments and the second s	
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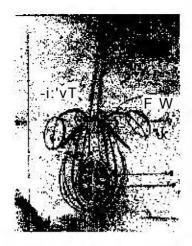
C.

i) What is part B Called?	{2 Marks}
4-14M-44441411-1-1-1-1-1-1-1-1-1-1-1-1-1	
The second secon	
and an experimental and an	
IMAGENIAN AND AND AND AND AND AND AND AND AND A	
ii) Why is it Important in the villus	(2 Marks)
-,,	
D, Name the blood Vessel connecting structure C to the liver	(2 Marks)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
THE THE TAX TH	
E. Suggest one advantage of blood going to the liver from the villus	
the whole body,	(2 Marks)
-24	*************************
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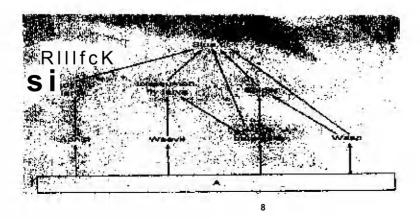
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2, The drawing shows a section through a flower



a)	Name the structure? labeled AF	(6 Marks)
	A	
	B	
	C	
	D,	
	E	
b)	State two visible feature whicti suggest that this flower is	s wind poSlirsateú.
		{2 Marks)
	и-и	

3. The diagram shows a food web in a wood?



s) what kind of organism would be in box A?	(2 Marks)
,-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	1-6166481464464464646

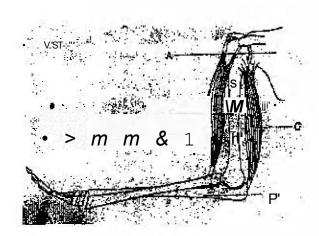
ii) Name one secondary consumer shown in this food web	(2 Marks)
,	*********************

	14614
m Make a food chain from this food web start with A?	(2 Marks

ummara	***********
	*
	,,
(iv) If all the lady birds died, explain what might happen to the	o number of
iv) If ali the lady birds died, explain what might happen to the aphickj	
iv) If all the lady birds died, explain what might happen to the	(2 Marks)
iv) If ali the lady birds died, explain what might happen to the aphickj	(2 Marks)
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iv) If ali the lady birds died, explain what might happen to the aphickj	(2 Marks)
iv) If all the lady birds died, explain what might happen to the aphickj 8. Energy comes into the food web at A.	(2 Marks)
iv) If all the lady birds died, explain what might happen to the aphickj 8. Energy comes into the food web at A. i) Where does this energy come from?	(2 Marks)
iv) If all the lady birds died, explain what might happen to the aphickj 8. Energy comes into the food web at A. i) Where does this energy come from?	(2 Marks)
iv) If all the lady birds died, explain what might happen to the aphickj 8. Energy comes into the food web at A. i) Where does this energy come from?	(2 Marks)
iv) If ali the lady birds died, explain what might happen to the aphickj 8. Energy comes into the food web at A. i) Where does this energy come from?	(2 Marks)
it) If ali the lady birds died, explain what might happen to the aphickj 8. Energy comes into the food web at A. i) Where does this energy come from? it) How do the animals in this food web use this energy?	(2 Marks) (2 Marks)
iv) If ali the lady birds died, explain what might happen to the aphickj 8. Energy comes into the food web at A. i) Where does this energy come from?	(2 Marks) (2 Marks)
iv) If ali the lady birds died, explain what might happen to the aphickj 8. Energy comes into the food web at A. i) Where does this energy come from? it) How do the animals in this food web use this energy?	(2 Marks) (2 Marks)
iv) If ali the lady birds died, explain what might happen to the aphickj 8. Energy comes into the food web at A. i) Where does this energy come from? it) How do the animals in this food web use this energy?	(2 Marks) (2 Marks)

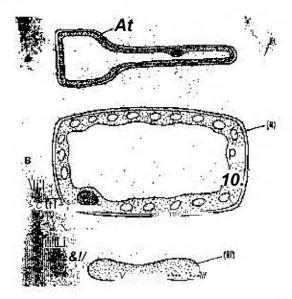
- 4. The diagram shows certain bones and muscles in the arm.
 - a) Correctly identify the structure shown, using names chosen from the following list (4Marks)

1. Ligament	2. Shoulder blader	3 Biceps	4. Tendon
5. Ulna	6. Triceps	7. Hamerus	8, Radius,



b) Describe now the muscles of the ami are used to raise it?	(2 Marks)
H-#mbananananananananananananananananananan	.,
	***!
c) Name the structure which attaches muscle to the bone?	(2 Marks)
''	4
4-K-4-K-11,-4-K-1,-4-K-1,-4-K-1,-1,-4-K-1,-1,-4-K-1,-1,-4-K-1,-4-	

5 The diagram below show sections of three different cells, A,B and C. they are not drawn to the seme scale



a) Name parts	{3 Marks)
i) ,	
?ì;	
iilj	
b) A and B are plant cells G is an anima	al cell.
Give two features shown in the diagran	ns that support this statement. (2 Marks }
······································	
c) State precisely where in a plant or a	nimal you would expect to find ceils, A,8
and C.	(2 Marks)
aration and the same and the sa	
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

	d) State one way in which the structure af each of the cells A and B helps it to		
	carry out its main function.	(2 Marks)	

	· · · · · · · · · · · · · · · · · · ·		
	(414)		
	e) i) Name the substances SikeJy to pass through celi A on its way		
	living plant?	(2 Marks)	
	NATIONAL CONTRACTOR OF THE PROPERTY OF THE PRO		

	ii) Name on substance produced in celi B which is found in high	concentration in	
	cell C?	(2 Marks)	
		(= marke)	
4.7		***************	
	a) List the seven characteristics of living Organisms	(7 Marks)	
	a) List the seven characteristics of living Organisms	(1 IVIaINS)	
<u>_</u> 6)	**************************************		
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	b) why are motists called the circulant Operations 2	(4 Ni=-1)	
	b) why are protists called the simplest Organisms?	(1 Marks)	
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