

EXAMINATIONS COUNCIL OF SWAZILAND Swaziland General Certificate of Secondary Education

CANDIDATE NAME	
CENTRE NUMBER	CANDIDATE NUMBER
BIOLOGY Paper 1 Short Answers	6884/01 October/November 2018
	1 hour
Candidates answer on the Question Paper. No Additional Materials are required.	
READ THESE INSTRUCTIONS FIRST	
Write your Centre number, candidate number Write in dark blue or black pen. You may use an HB pencil for any diagrams, Do not use staples, paper clips, glue or corred Do not write on the barcode.	graphs or rough working.
Answer all questions.	
You may use an electronic calculator. You may lose marks if you do not show your	working or if you do not use appropriate units.
The number of marks is given in brackets []	at the end of each question or part question.
	For Examiner's Use

This document consists of 8 printed pages and 4 blank pages.

© ECOS 2018 [Turn over

	2	
1	The scientific name for the human being is <i>Homo sapiens</i> .	
	State what level of classification the name <i>Homo</i> represents.	
		[1]
2	Fig. 2.1 shows an arthropod.	
	Fig. 2.1	
	State two characteristics of the organism in Fig. 2.1 which identify it as an arthropod.	
	1	
	2	[2]
3	Fig. 3.1 shows a pair of cells found on the lower surface of leaves.	
	Fig. 3.1	
	(a) Name the cells shown in Fig. 3.1.	
		[1]
	(b) State one feature of the cells in Fig. 3.1 that is not found in root hair cells.	
		[1]

	J
State the e	equation for anaerobic respiration in muscles using symbols.
Fig. 5.1 sh	ows bones and muscles in a human arm.
	A B arm bending
	Fig. 5.1
	he part played by muscles A and B in bending the arm in the direction shown by in Fig. 5.1.
	now a balanced diet of a fourteen year old boy will change when he is a fifty anual worker.

7 Fig. 7.1 shows the chromosomes present in the nucleus of a gamete.

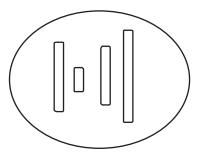


Fig. 7.1

	(a) State the number of chromosomes in the body cells of this organism.	
	(b) Name the type of cell division that results in the formation of gametes.	
8	Describe how excess glucose is processed for storage in the liver.	
9	Describe the symptoms of a lack of iron in the diet.	[1]
10	The immune system protects the body from infections. Describe the immune system in terms of phagocytosis.	
		[2]

11 Fig. 11.1 shows a section through a flower.

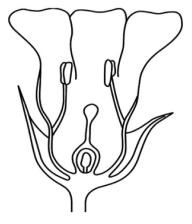


Fig. 11.1

	State two features of the flower in Fig. 11.1 that identify it as insect-pollinated.						
	1						
	2		[2]				
12	Mut	tation is a source of variation.					
	(a)	State two factors that increase the rate of mutation.					
		1					
		2	[2]				
	(b)	State the type of variation shown by human blood groups.					
			[1]				

13 Fig. 13.1 shows a method of birth control.

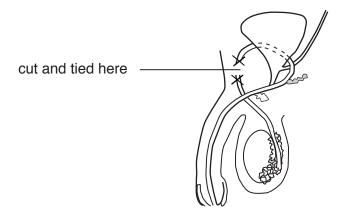
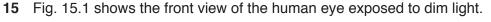


Fig. 13.1

	Nan	ne the method of birth control shown in Fig. 13.1.	
			. [1]
14	(a)	State the condition resulting from abnormal cell division that is promoted in the lungs by smoking.	
			. [1]
	(b)	State the name for the movement shown by moths being attracted to a light bulb.	
			. [1]



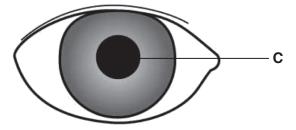


Fig. 15.1

Explain the change that would be observed in part **C** if bright light is shone into the eye.

State	the	role	of the	recen	tors	and	fatty	ticcue	in	temi	perature	reau	lation
Siaie	เมษ	IOIG	OI IIIE	Tecep	เบเจ	anu	ially	แออนษ	111	renn	peralure	regu	ialion

receptors	 	

_	_		_
fatt\	, ticcuo	יסו	1
ιαιιν	้ แออนษ	 16	1

- 17 A drug is an externally administered substance that affects chemical reactions in the body.
 - (a) State one medicinal use of the drug penicillin.

[1]

(b) State **one** long term effect of alcohol in the human body.



18 Fig. 18.1 shows a food web.

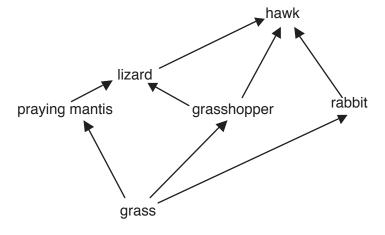


Fig. 18.1

((a)	State the	principal	source of	energy	for the	food w	eb in Fig.	. 18.1.

r	64.	1
	(I I	L

(b) Construct a food chain with four trophic levels from the food web in Fig. 18.1.

[2]

(c) State an advantage of a short food chain.

r	14.
	. 7
	٠.

19	State two undesirable effects of deforestation.				
	1				
	2	[2]			
20	(a)	Name the part of the kidney where water is filtered out of the blood[1]			
	(b)	The kidney also removes excretory products dissolved in water.			
		Name one of these excretory products.			
		[1]			
21	Nan	ne the process by which nitrates in the soil are broken down to release nitrogen gas.			
		[1]			

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (ECOS) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

© ECOS 2018 6884/01/O/N/2018