

EXAMINATIONS COUNCIL OF ESWATINI Eswatini General Certificate of Secondary Education

CANDIDATE NAME						
CENTRE NUMBER				CANDIDATE NUMBER		
BIOLOGY					6	6884/01
Paper 1 Short A	nswers			•	October/Novemb	
						1 hour
Candidates ans	wer on the Quest	ion Paper.				
No Additional M	aterials are requi	red.				
READ THESE	NSTRUCTIONS	FIRST				
Write your Centre number, candidate number and name in the spaces provided. Write your answers in dark blue or black pen. You may use an HB pencil for any diagrams, graphs or rough working. Do not use staples, paper clips, glue or correction fluid. Do not write on the barcode.						
Answer all ques You may use ar	tions. electronic calcul	ator.				
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	s Use

This document consists of 9 printed pages and 3 blank pages.

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1 Fig. 1.1 shows a plant cell.

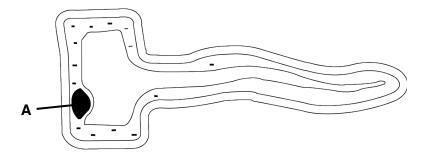
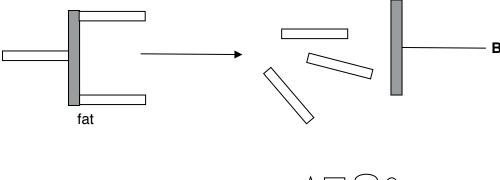
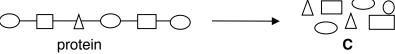


Fig. 1.1

a)	State the function of the feature labelled A .	
		[1]
b)	This cell has a hair-like extension.	
	Explain how this helps the cell to fulfil its function.	
		[0]

2 Fig. 2.1 shows models of two different food molecules before and after digestion.





before digestion

after digestion

Fig. 2.1

Name the molecules labelled B and C.

В	

C[2]

Fig.	4.1 is a diagram of the double circulatory system in humans.
	blood vessel D pump E body cells
	key: → direction of blood flow
	Fig. 4.1
(a)	Name the blood vessel labelled D .
(b)	Explain why blood at E flows at a high pressure.

6 Fig. 6.1 shows part of a flowering monocotyledonous plant.



Fig. 6.1

(a)	Label, using a straight line and letter ${\bf F}$, where pollen could have landed to produce the fruit.	he
(b)	Name the agent of pollination in this flower.	[1]
(6)		[1]

7 Fig. 7.1 shows a pathway followed by an impulse in a reflex action.

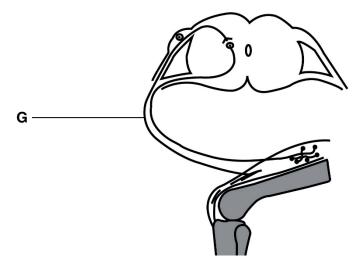


Fig. 7.1

	(a)	State the name given to the junction between the two neurones.	[1]
	(b)	Describe the effect on this reflex action of cutting the neurone at point G in Fig. 7.1.	
	(c)	State one reason why a reflex action is an example of an involuntary action.	
8	Nan	ne the part of the brain that controls the sense of balance.	
			[1]

9 Fig. 9.1 shows a fermenter used in the manufacture of enzymes for biological washing powders.

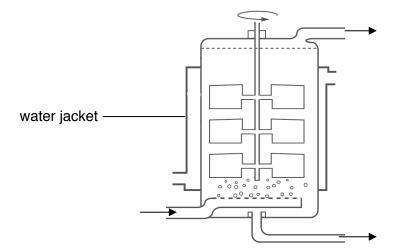


Fig. 9.1

(a)	Name one microorganism that is used in a fermenter.
	[1
(b)	State the purpose of the water jacket.
	[1
(c)	State the type of enzyme in the biological washing powder that removes blood stains.

10 Fig. 10.1 shows an alveolus and associated blood capillary.

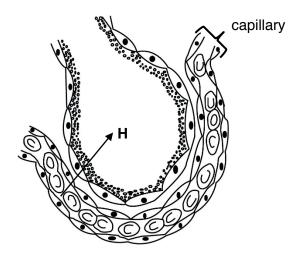


Fig. 10.1

	(a)	Name the gas that moves in the direction shown by arrow H .
	(b)	Describe how oxygen is transported to body cells.
11	(a)	Define the term <i>genetic engineering</i> .
	(b)	State two reasons why besteric are used in genetic engineering
	(D)	State two reasons why bacteria are used in genetic engineering. 1
		2
		[2]

12 Table 12.1 shows the order of bases in a part of a strand of DNA.

Table 12.1

С	
Α	
Α	
G	
С	
С	

Complete Table 12.1 by filling in the complementary bases to complete this part of a strand of DNA. [1]

13	Gonorrhoea is a sexually transmitted disease.	
	State two signs or symptoms of gonorrhoea.	
	1	
	2	2]
4.4	Name two products of apparable reconstration in vesset at her apparatus	
14	Name two products of anaerobic respiration in yeast other than energy. 1	
	2	
	2 [د]
15	State two social problems that arise from heroin abuse.	
	1	

16 Fig. 16.1 illustrates stages in the development of immunity against chicken pox in a human being.

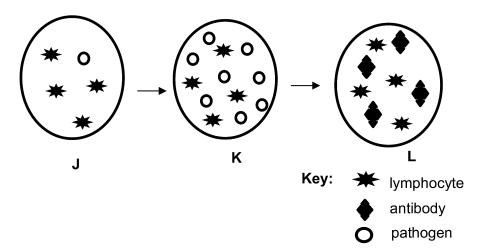


Fig. 16.1

	(a)	Name the stage where the person becomes ill in Fig. 16.1.	[1]
	(b)	Explain why the person is not likely to suffer from chicken pox again.	
			[2]
17		te the term used to describe development that provides for the needs of an increasing nan population without harming the environment.	
			[1]
18	Des	scribe the distribution and function of rods in the eye.	
	dist	ribution	
	func	ction	[2]

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