NAME	INDEX NO	•••••••
SCHOOL	SIGNATURE	
DATE		

INDEX NO

231/1 BIOLOGY PAPER 1 (THEORY) 2 HOURS

BT A B #T

## **GOLDEN ELITE EXAMINTIONS 2020**

Kenya Certificate of Secondary Education (K.C.S.E)

231/1 BIOLOGY PAPER 1 (THEORY) 2 HOURS

#### **INSTRUCTIONS TO CANDIDATES**

- Write your name and Index Number in the spaces provided above.
- Sign and write date of examination in the spaces provided above.
- Answer **ALL** questions in the spaces provided.
- All workings **MUST** be clearly shown where necessary.

#### FOR EXAMINERS USE ONLY.

Question	Maximum Score	Candidates Score
1 - 28	80	



Candidates should check the question paper to ensure that all the papers are printed as indicated and no questions are missing

1.	Name the reagent used for testing presence of	(3 marks)												
	(a) Starch													
	(b) Reducing sugars													
	(c) Vitamin c													
2.	State the processes which occur in each of the following organelles.	(2 marks)												
	(a) Chloroplast	,												
	(b) Mitochondrion													
	(c) Ribosomes													
3	A student observed a specimen through a light microscope. He used the objective lens market													
3.	indicated the magnification of the image as x 400, what was the eye - piece magnification?													
	indicated the magnification of the image as x 400, what was the eye - piece magnification (Show your working).													
		(3 marks)												
		• • • • • • • • • • • • • • • • • • • •												
4														
4.	C	(3 marks)												
	(a) Rings of cartilage													
	(b) Mucus													
	(c) Cilia													
	(a) What do you understand by the term biological control?	(1 <b>mark</b> )												
	NAME OF MORE RECOURCES LIVE THIS ON ECOL FRONKS COM													





8.	<ul><li>(c) Carbon (II) oxide</li><li>(a) Name the main group of organisms which comprise the Kingdom Monera.</li><li>(b) State any three ways in which the organisms named in 8 (a) above affect human lives.</li></ul>	(1mark)
	(b) Carbon (IV) oxide	
7.		
6.	Name any three forces that maintain the transpiration stream	(3 marks)



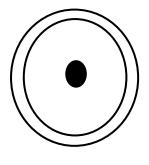
10.	Why is it necessary for an athlete to breathe heavily after running?	(2 marks
11.	State ways in which the following diseases can be prevented	
	(a) Typhoid and amoebic dysentery	(2 marks)
	(b) Malaria	(2 marks)
		•••••
12.	What are the three distinguishing features of phylum Arthropoda?	(3marks)
13.	(a) Name the main product of the dark stage of photosynthesis.	( 1 <b>mark</b> )
	(.,,	
	(b) What is the role of chlorophyll during photosynthesis	(2mark)
14.	Name three mechanisms that prevent self-pollination in flowers that have both ma	
		(3 marks)

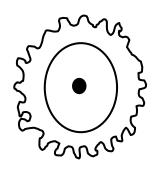


	State two roles played by the process of reproduction.  WNLOAD MORE RESOURCES LIKE THIS ON ECOLEBOOKS.COM	( 2marks)
	(c) Which disease was the person suffering from?	( 1 <b>mark</b> )
	Hormone	
	(b) Name the gland and the hormone which failed to control the above condition.  Gland	(2marks)
	(a) Name the type of sugar present in the urine.	( 1mark)
18.	A person's urine tested positive for reducing sugars.	
17.	Why is it necessary for blood from the gut to pass through the liver before joining gener	(2 marks)
16.	What is the significance of highly folded inner membrane of a mitochondrion?	(2 marks)
15.	State three applications of anaerobic respiration.	(3 marks)



	••••		
20.		at is the habitat of the following plants?  Xerophytes	( 3marks)
	(ii)	Hydrophytes	
	(iii)	Halophytes	
21.	(a)		( 2marks)
	<b>(b)</b>	Name and two dental diseases	
	(0)	Name any two dental diseases.	(2 marks)
22.	Hov	w is the sperm cell adapted to carry out its function?	(3 marks)
23.	The	e following are diagrams of two pollen grains.	







(a)	State one observable difference between K and L.	(1 <b>mark</b> )
(b)	State the agent of pollination for each of them.  K	(2 marks)
	L	
24. Ho	w do sunken stomata reduce transpiration?	(2marks)
	ve the classes to which the following animals belong.  Human being	( 3marks)
(b)	House fly	
(c)	Spider	
26. (a)	State one event that occurs in prophase of meiosis I which does not occur in pr	_
		(1 <b>mark</b> )
(b)	What are the results of the above phenomena?	(2 marks)
27. Ex	plain why growing grass die a few days when salt is sprinkled on it.	(3marks)



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