FORM 1 TERM 3 APRIL 2022 BIOLOGY

1.	Differentiate between Botany and Zo	oology	(2 mks)
2.	Motor vehicle move, use energy and characteristics occur in living organi organism. Explain	produce carbon iv oxide and water s sms yet motor vehicles are not classi	
3.	List skills that are gained on studyin	g Biology	(2 mks)
4.	Give three difference between the lig	ght and electron microscopes Electron microscope	(3 mks)
		A B	
5. i)	The diagram above was obtained from Identify the structure	m a certain organism.	(1 mk)

ii)	Which type of microscope was used to view the structure					
iii)		Name the parts labelled	(2 mks)			
	В					
		C				
iv)		State the function of the part labelled A	(2 mks)			
6.		ate the functions of the following parts of a light microscope				
		Diaphragm Objective lens	(1 mk) (1 mk)			
7.		plain the importance of doing the following when testing a leaf for starch Boiling the leaf in water	(4 mks)			
	ii)	Boiling the leaf in methlylated spirit				
	iii)	Boiling the methylated spirit in water bath	•••••			
	iv)		•••••			
8.	De	scribe what happens during the light stage of photosynthesis	(3 mks)			
9.	Sta	te two factors that affect enzymatic activities	(2 mks)			
10.	Sta	te a function of the large intestine in humans	(1 mk)			
11						
11.	Sta i)	te the role of Vitamin C in human	(1 mk)			
	,					
	ii)	Iron in humans	 (1 mk)			

12. State two roles of H 0		(2 mks)	
13. a) Complete the table	e given below		(3 mks)
Eye –piece lens	Objective lens	Total magnificat	
magnification	magnification		
X 5		X20	
X 10	X5		
	X10	X100	
b) State two activities of	of the cell that are controlled by r	ucleus	(2 mks)
*****************			• • • • • • • • • • •
•••••			•••••
c) Identify the specialized cell illustrated below (1			
	A STORY		
16	В		
;)			(1 mls)
i)	•••••••		(1 mk)
ii) Name the parts la	belled		(2 mks)

	A	
	В	
iii)	What is Binomial nomenclature	(1 mk)
14. Na i)	ame the organelles that would be found in large numbers in cells of a: Rapidly respiring tissue	(1 mk)
ii)	Secretory gland	(1 mk)
15. St i)	ate the function of each of the following tissues Meristematic	(1 mk)
ii)	Blood	(1 mk)
16. Di	ifferentiate between plasmolysis and crenation	(2 mks)
	ne scientific name of an onion is <i>Allium cepa</i> Identify the genus and the sphich the organism belongs genus	ecies to (2 mks)
	species	
b)	Outline three functions of carbohydrate in living organism	(2 mks)
c)	What are the building blocks of proteins	(1 mk)
d)	Give two factors that determine energy requirement in human beings	(2 mks)
e)	Name the monosaccharides that make up the following substances i) Sucrose	(1 mk)

ii)	Lactose	(1 mk)
-----	---------	--------

18. The table below shows the number of teeth in the jaws of an animal

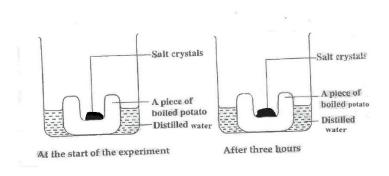
	Canines	Incisors	Premola	Molars
Upper jaw	0	0	6	4
Lower jaw	8	0	6	6

a) V	Write	the dental	formula of the organism			(1 mk)
b) i) Sta	te the mode	of feeding of this animal			(1 mk)
i	ii)		reasons for your answer			(2 mks)
i	v)	Name any	y two dental diseases			(2 mks)
V	7)	The diagr	rams below represents com	mon equipment us		sts
				Handle		
			O	P	Q	
			ify the equipment	•		(1 mk)
		P				(1 mk)
		Q				(1 mk)
19. a) G		ne uses of the peciment be	ne following apparatus			(2 mks)
ii)	 P	ooter				••••

b)	(3 m	ks)	specimens		
	•••••				
c)	Name the carbohydrate that is				
	i)	Stored in plant seeds	(1 mk)		
	ii)	Stored in mammalian muscles	(1 mk)		
	iii)	Most abundant in human blood	(1 mk)		

20. A group of students set up the experiment below to investigate a certain physiological process

Set up A



Set up B

