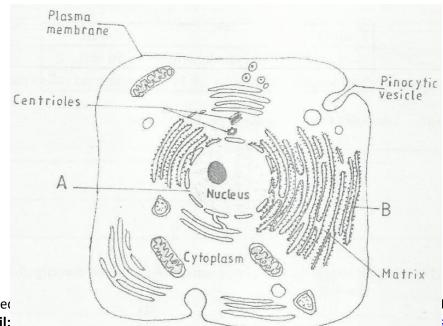
FORM 3 TERM 3 APRIL 2022 BIOLOGY PAPER 1

1.	a)State two characteristics that are specific to plants	(2mks)			
	b) Name three mechanisms that ensure cross pollination takes place in flowering	g plants. (3mks)			
2.	a) State two differences between complete and incomplete metamorphosis.	(2mks)			
	b) State the importance of moulting to an insect.	(2mks)			
3.	A student collected an organism and observed the following features: simple eyes, four pairs of legs and				
	two body parts. a) State the class to which the organism belongs.	(1 mark)			
	b) Give an example of an organism in this class.	(1 mark)			
	c) Name the kingdom to which plasmodium belongs	(1 mark)			
1.	Name the three end products of anaerobic respiration in plants.	(3 marks)			

5.	State two reasons why accumulation of lactic acid leads to an increase in heart beat. (2 marks)		
6.	Name the flower parts that produces gametes.	(2 marks)	
7.	What is meant by the following terms?	(2 marks)	
	(a) Ecology		
	(b) Carrying capacity		
8.	How is the human sperm cell structurally adapted?	(2 marks)	
0	The figure below is a fine structure of a generalized animal cell as seen und	lar an alactron microscopo	

9. The figure below is a fine structure of a generalized animal cell as seen under an electron microscope.

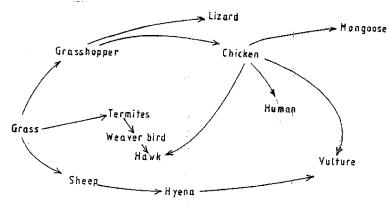


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(a) Name the parts labeled A and B.	(2 marks)
A	
В	
(b) How is the structure labeled B adapted to its function?	(2 marks)
10. What name is given to a group of hormones that controls the development	at of secondary sexual
characteristics in a human male?	(1 mark)
11. Name two substances that leave the foetal blood through the placenta	(2 marks)
12. Name two nutrients that are absorbed without being digested by enzyments.	es in humans.(2 marks)
13. State one use for each of the following apparatus in the study of living org(a) Pooter	ganisms. (2 marks)
(b) Pitfall trap	
14. The figure below illustrates a food web in a certain ecosystem.	

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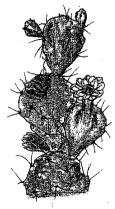


From the food web:	
(a) Draw the shortest food chain;	(2 marks)
(b) Identify the organisms with the highest	
(i) Number of predators	(1 mark)
(ii) Biomass	(1 mark)
ate two functions of the following parts of a light microscope.	
a) Fine adjustment knob	(2 marks)

16. The diagram below represents a certain plant.

b) Stage

(2 marks)

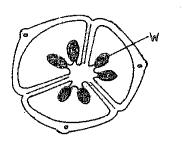


(a) What is the likely habitant of the plant? (1)		(1 mark)
) Give two reasons for	your answer in (a) above.	(2 marks)
the field of view of a lig	ght microscope. The results we	wo leaves from plant X and Y we ere as shown in the table below.
	ght microscope. The results we	_
the field of view of a lig	ght microscope. The results we Number	ere as shown in the table below.

(2 marks)

18. The diagram below represents a transverse section of an ovary from a certain flower.

(b) Given a reason for your answer in (a) above



	(a)	(i)	Name the structure labeled W	(1 mark)
		(ii)	Name the type of placentation illustrated in this diagram.	(1 mark)
		•••		
	(b)	G	ive an example of a fruit that show the type of placentation illustrated in	this diagram. (1 mark)
40 5		••••		
19. 1	he dia	ıgraı	m below illustrates the structure of bread mould.	
	a) N	ame	the part labeled ${f J}$	(1 mark)
	 b) Si	ate t	he function of the structure labeled ${f K}$	(2 marks)
20. V	 Vhat i	s me	ant by the following term? Habitat;	(1 mark)
		b)	Ecosystem	(1 mark)

21. State two ways by which acquired Immune deficiency syndrome (A.I.D.S) Vir	(2 mks)
22. Figures 1 and 2 below represent reproductive organ of plants and an animal re	spectively.
Fig.1	P P
(a) Which letters in figures 1 and 2 represents the organs that produce fer	male gametes? (2mks)
Figure 1	
Figure 2	
(b) What is the function of the structure labeled S?	(2mks)
(c) Name the structure labeled W	(1mk)
(d) Which letters in figures 1 and 2 represents the structures where fertilist	-
(e) Which letter in figure 1 represents the structure where male gametes a	are produced (1mk)
23 What is the function of the following structures in the human reproductive organ	

a) Fallopian tubes.

(2 mark)

b)	Epididymis	(1 mark)
c)	Scrotal sac	(2 mark)
24 State (any three fruit and seed dispersel mechanisms	(3mks)
24. State 6	any three fruit and seed dispersal mechanisms	(SHKS)
•••••		
•••••		
25. A stud	ent observing a leg of an insect under a hand lens	made a drawing of the leg whose length was
4cm a	width magnification of X2.what was the actual lea	ngth of the leg? (3mks)
•••••		
•••••		
•••••		
26. Give t	wo reasons why mitosis is important to organisms	. (2mks)
•••••		
•••••		

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