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BIO	LOGY	7
001	14	

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1.	List any two distinguishing features of class Arachnida.	2mks
2.	a) What is the importance of Adenosine triphosphate (ATP) in mammals.	1mk
	b) State 2 functions of respiratory Quotient (R.Q)	2mks
3.	List 2 differences between dicotyledon stem and dicotyledon root	2mks
4.	Sometimes back, Quinine was an effective drug in malaria treatment. Recently a	nd currently
	quinine drug has been established to be ineffective in treatment of malaria.	5
	i) Name the protozoa which causes malaria	1mk
	ii) Name the biological process which occurred to the protozoa named in (i)	above
	to become ineffective in malaria treatment.	1mk
	(iii) What is the resultant effect of the biological process named in (i) above a	fter
	long period of time.	2mks
5.	a) State two ways by which plants remove their waste products	2mks
	b) What causes accumulation of lactic acid involved in vigorous exercises.	2mks
6.	a)(i) Name the hormone responsible for moulting in insects.	1mk
	(ii) Where is the hormone named in (i) above secreted.	1mk
	b) Explain why Iodine is necessary for complete development of tadpole into ad	ult 1mk
7.	In an experiment, it was found that when maggots are exposed to light, they more	ve to
	dark areas.	
	(i) Name the type of response.	1mk
	(ii) Give the advantages of this type of response	2mks
8.	a) Name the class of food that provides energy to the body under extreme starva	tion1mk
	b) What is the function of the following parts in the mammalian stomach.	
	(i) Goblet cells	
	(ii) Chief (peptic) cells	.1mk
9.	Give two functions of vacuole	2mks
10.	Give the function for the following process when preparing temporary slides.	2mks
	i) Sectioning	
	ii) Fixation	
11.	Name any two types of Polysaccharides found in plants.	2mks
12.	In what ways has man contributed to faster growth of water plants.	2mks
13.	State the effect of chlorofluoro carbons (CFCs) in the atmosphere.	2mks
14.	a) Why is the mammalian trachea have it's cartilage rings being incomplete or '0	-
		1mk
1.5	b) List the surfaces used for gaseous exchange in amphibians.	3mks
15.	(a) Name the part of female reproductive system where fertilization occur. 1mk	
	b) State how male sex cells (sperm cells) are adapted tot their function.c) What is the rate of certail cells.	11-
	c) What is the role of sertoli cells.	1mk
16	a) Identify the organelle below	



b) How is it adapted to its function. Give two function of exoskeleton found in insects.

- 17. 18. Name four environmental causes of mutation.
- 2mks 19. The 'dolf' is an offspring from a dog and a wolf. This animal is however infertile. Give a reason for this infertility. 1mk

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1mk

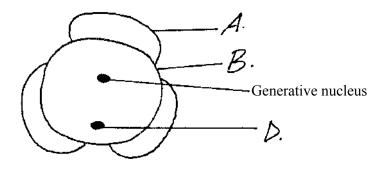
2mks

2mks

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a)	Pelvic girdle and femur.	

- b) Humerus and the ulna
- a) What are the main end product of photosynthesis. 21. 2mks 2mks
- b) What raw material are required in dark stage of photosynthesis. 22. Identify parts of the flower where meiosis takes place.
- 2mks 23. The diagram below shows a pollen grain. Study and answer the question that follows.



a) Label parts A and B

2mks 1mk

2mks

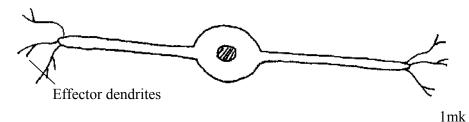
1mk

1mk

- b) What is the function of parts labeled D
- The table below shows blood composition of Hirii Rose and Okumu

24.	The table below shows blood composition of Hirji, Rose and Okumu						
	Person	Hirji	Rose		Okumu		
	Red blood cells (mm ³)	7,900	6,000	2,100			
	White blood cells (mm ³)	60	7,000	6,000			
	Platelets	260,000	270,000	600			
a) Which person is likely to live at high altitudes 1mk							
Re	Reason 1mk						
b) W	'hich person's blood is likely	to have an iron d	eficiency in his diet.	1mk			
Re	eason			1mk			
25.	Explain the effect of an enzyme inhibitor e.g. cyanide in the translocation of manufactured						
	food from the leaves to oth	er parts of the pla	ant.		2mks		
26.	a) What is nitrogen fixation.						
	b) In what form do plants	take up nitrogen.			1mk		
27.							
28.	Name the part of the renal tubule where						
	(i) Glucose and amino acid	ls are reabsorbed	•		1mk		
	(ii) Sodium ions are reabsorbed.						

- (iii) State one structural modification of nephrons found in desert animals. 1mk
- 29. a) Identify the type of neuron drawn below



- b) State the function of the neuron named above. 1mk
- c) Using an arrow on the diagram show the direction of movement of nerve impulse1mk
- 30. List 2 factors affecting osmosis.
- 31. Give the name of photochemical pigment present in Rods. 1mk