BIOLOGY
Paper 1
2 Hours

Revision Passon

Paters

Pate

## PRECIOUS BLOOD SCHOOL MOCK EXAM

Answer ALL the questions in the spaces provided.

## FOR EXAMINER'S USE ONLY.

Question	Maximum score	Candidate's Score
1-29	80	
	3 3 2	

## Answer ALAS the questions in the spaces provided.

Pagoti.	cus		12	
gi of thi.				
(ii) Restricting light fr	om the source	***	' s x	
What I want	*	7		
State three adaptation	ns of halophytes to the	ir habitat.		(3
N N			8 0	
	\alpha			
Thermo	nd then cooled before	Delivery tube	penaron	
	\ a			
5		$\overline{\Box}$		
	Rubb		<ul><li>Boiling tube</li></ul>	
		per	— Boiling tube	
	Stopp	g	23	
	Boilin tube	ger	- Boiling tube - Lime water	
	Boilin tube	ger	23	
a) Which process w	Boilin tube Oil Glucos and Ye solutio	ger	23	- (
a) Which process w	Boilin tube	ger	23	
a) Which process w	Boilin tube Oil Glucos and Ye solutio	ger	23	- (
	Boilin tube Oil Glucos and Ye solutio	g	23	(

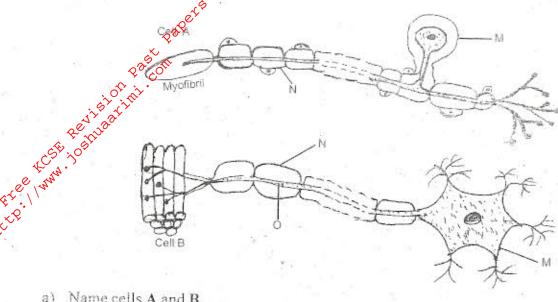
State one structural anodification of stomata found in xerophytes.  State one structural anodification of stomata found in xerophytes.  State one structural anodification of stomata found in xerophytes.  State one structural anodification of stomata found in xerophytes.  Name any one kingdom whose members are useful in the cycling of matter in	(1 mar (2 mark
Name any one kingdom whose members are useful in the cycling of matter is a) Give a reason why some protease enzymes are secreted in an inactive for b) Why are proteins described as being amphoteric?	(2 marl
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b) Why are proteins described as being amphoteric?	20
b) Why are proteins described as being amphoteric?	- H
b) Why are proteins described as being amphoteric?	- 12
	m. (1 ma
y was a state of the first term of body.	( 1 ma
c) What is the role of iodine in the human body?	( 1 ma
Explain why not all the energy from one trophic level is available to the nex	t level. (2ma
	147)
	64 
Name two mechanisms that prevent self pollination in flowers that have bot female parts.	
AND STATE OF THE S	h male and (2 mar
	h male and (2 mar
	h male and (2 mar

10.	a) Where in the human body is the relay neuron located?	(1 mark
	- Pagerts	
	b) State the function of acetylcholine.	(1 mark
	2, 2, 2,	
14.	What is meant by the following terms:-	(2 marks
1/2.	(i) Genetic counselling  (ii) Artificial selection	
	(ii) Artificial selection	
	b) Name two genes in man that show incomplete dominance.	(2 marks)
		D = 1
seer .		-
	A leaf of a potted plant which had been kept in the dark for 24 hours was sme white petroleum jelly on its lower surface and exposed to sunlight for 6 hours on the leaf was negative. Account for this observation.	eared with s. Starch test (3 marks)
-		
35		
		3
3. 7	The diagram below shows a cell undergoing cell division. Study it and answer	r the

Centriole pair

(ii) Give a reason for your answer.  Petrological importance of tropic responses in plants.		(1
(ii) Give a reason for your answer.		(1
(and) Name the stage of cell division represented by the diagram above.  State three biological importance of tropic responses in plants.		-
(M) Name the stage of cell division represented by the diagram above.  State three biological importance of tropic responses in plants.		-
State three biological importance of tropic responses in plants.	a A	-
State three biological importance of tropic responses in plants.	,	
		(3
	W	
		71 5
	Y LANGE WAY	
variety having wrinkled seed coat. All the seeds obtained in F1 general seed coat, the F1 generation was selfed. The total number in F2 general (i) Using appropriate letters work out the genotypes of F2 generation.	ation was	a sm s 732
(ii) Calculate the number of plants in F2 generation that are		
(ii) Calculate the number of plants in F2 generation that are  (a) Smooth seeded	122 <u>.</u> 194 186	
(ii) Calculate the number of plants in F2 generation that are  (a) Smooth seeded	22. H	
XXX		

16. The diagram below represents two types of nerve cells commonly found in mammals.



1000	NAME OF TAXABLE PARTY.				
a)	Name	calle	A	and	P
54.7	7 4 24 2 2 3 2 2	PP113	13	GILLET	13.

(2 marks)

	N		W		
D					

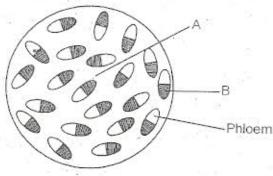
b) Name the structures labelled M, N, O.

(3 marks)

17. Name two types of skeletons found in animals.

(2 marks)

18. The figure below shows a transverse section of a monocot stem. Study it and answer the questions that follow.



a)	Name	parts	A	and	B.

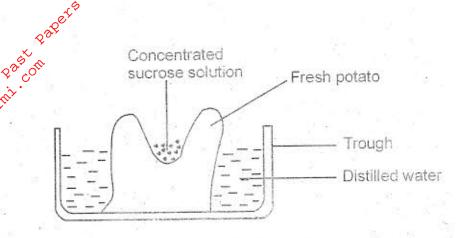
(2 marks)

Α				
		3.00307		
В				

State the function of wirt labelled A.		(1 ma
Zazer		
State one dement of the Lamark theory of evolution.  The figures below illustrate specialized cells in an anima		(2 mar
Realizat.		
The figures below illustrate specialized cells in an anima	als body.	
ino figures detail in massaure appropria	25 N	
	N	
N.	(6.5)	
a) Identify the cells M and N.		(2 ma
30.087		
M		
M		
N/O	N To the second	(2 ma
N		(2 ma
N		(2 ma
N		(2 ma
b) State the structural difference between M and N.	gut	
N		
b) State the structural difference between M and N.	gut.	
b) State the structural difference between M and N.  c) Which of the above specialized cells is found in the		( 1 ma
b) State the structural difference between M and N.  c) Which of the above specialized cells is found in the State the function of the following cell organelles.		(2 ma
b) State the structural difference between M and N.  c) Which of the above specialized cells is found in the		( 1 ma
b) State the structural difference between M and N.  c) Which of the above specialized cells is found in the State the function of the following cell organelles.		( 1 ma

Give two functions of blooders a tissue.	(2marks)
Pageté	
- si othi.	
State two features of a corolla that enhances insect pollination.	(2 marks)
Legit 105 th 105	
State the role of each of the following enzymes in the body.  a) Catalase	(2 marks)
	SV
b) Carbonic anhydrase	5 X-54 X
	s
Name the causative organism of the following diseases.  a) Malaria	(2 marks)
	(2 marks)
a) Malaria	(2 marks)
	(2 marks)

26. The experiment illustrated below was set up to investigate a certain physiological processes using a fresh potato tubes.



			5 70 10 20 00
a)	Suggest a possible physiological process that was b	peing investigated: (1	mark)

b) Explain the results obtained in the above experiment after few hours. (2marks)

 State the observations that would have been made if the experiment was repeated using boiled potato.

- 27. State the functions of the following parts of the human ear. (2marks)
  - a) Ossicles

28. Name the specialized cells that are involved in the uptake of mineral salts by plants from the soil.

(1 mark)

Rote 129. State two components of blood that are absent in glomerular filtrate. (2marks)