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	P530/1	•••••
(T)	BIOLOGY THEORY	



Paper 1

Monday 14<sup>th</sup> August 2023 (Morning) 2 hours 30 minutes

# the mover correct of chloride ions from the classicalinto r ACHOLI SECONDARY SCHOOLS EXAMINATIONS COMMITTEE

Uganda Advanced Certificate of Education Joint Mock Examinations, 2023 **BIOLOGY THEORY** 

Paper 1

2 hours 30 minutes

### INSTRUCTIONS TO CANDIDATES: 2012/01 Line 2012/19

✓ Answer ALL the questions in both Sections A and B.

- ✓ SECTION A Answers to this section should be indicated by circling the correct alternative.
- ✓ SECTION B Answers to this section should be written in the spaces provided.

Fo	r Exami	ner's Use Only	<ul> <li>6. The following are the curves of tensors.</li> </ul>
Quest	ions	Marks	C. increases, vanistiga
Section A	: 1 – 40	uni etintin vast virette	To equipment animolification of the control of the
	41	THE SHALL DESIGN THE AND	fywding painigen
turin Period erio	. 42	D. Nigit	- A. Denisitying budada C. Photosynthelic becleria
Section B	43	s zinela te etear en hac	reseaser S. The following familians are perform
elloo wa	1.44oit	B. produc	negyzo to nosquees. A
etouborq s	45	Marin St.	neqque to notelying D
Hillerent pla	46		9. What is the significance of the three A. Allows rapid transmission c
TOTA	Leib zu		B. Altows detection of changes

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#### SECTION A

	The production of red blood cells in the man		
	A. bone marrow B. liver C. s	spleen D. lymph nodes	
2.	The diameter of glomerular capillaries is mu-	ch less than that of arterioles in order to:	
	A. eliminate glucose from the filtrate	B. raise the filtration pressure	77 AV
	C. eliminate globular proteins from urine	D. regulate the process of filtration	
	ground protonic from unite	B. regulate the process of matters	(De-4e)
3.	During carbon dioxide transport, the movement blood cells is aimed to:	ent of chloride ions from the plasma into r	ed
	A. restore its water potential	B. restore the electronegativity of the	cell
	C. maintain a larger diffusion gradient fo	rions	
	D. maintain the blood pH	Janit etak suaminanian	
		155 (12) (10) (12) (13)	
4.	Which one of the following pairs of hormonophysiological stress in plants?	es would be most active during periods of	
	A. Ethene and abscissic acid	B. Cytokinins and ethene	
	<ul> <li>C. Abscissic acid and gibberrelins</li> </ul>	D. Ethene and auxins	100
			ra 493V.s
5.	Which of the following epithelial tissues line	es the oviduct and kidney tubules respective	elv?
	A. Stratified and cuboidal	B. Ciliated and cuboidal	orliens.
	C. Squamous and ciliated	D. Ciliated and squamous	viojin
-	The Cilleria and a Constant		
0.	The following are the effects of territorial be	200 1 00 0 0 1 T 20 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	A. increased in-breeding	B. reduced competition	
	C. increased variation	D. reduced reproductive fitness	
~		Carries A service	
7.	Which of the following groups of bacteria us respiratory pathway?		the
	A. Denitrifying bacteria	B. Pathogenic bacteria	
	C. Photosynthetic bacteria	D. Nitrifying bacteria	
_			
8.	The following functions are performed by ro		
	A. absorption of oxygen	B. production of new cells	
	C. provision of support	D. storage of waste products	1.3
^	The state of the s		
,	. What is the significance of the three semi-ci	rcular canals being in different planes?	
	A. Allows tapid transmission of sound v	Ibrations	
	B. Allows detection of changes of move	ments in various directions	
0	D ASSEC 2023 Acholi Secondary School	s Examinations Committee	
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D. Brings about summation of information from various directions
C. activous cator disturbences D. hardening of bones
10. Which type of population growth curve arises in a population that is characterised by explosion followed by rapid decline? Aldo to also about the banch TOM of growth of the double.
explosion followed by rapid decline? gildo in the orbid admin band. TOM of grave for our to do the wife
A. Boom and burst curve
C. Cyclic population curve D. Logishal
k. Which ene of the following is the grammy function of lymphanic fishers. In the following is
11. The fact that all native mammals of Australia are marsupials and they are not represented elsewhere in the world is evidence for evolution that is harically and they are not represented.
A. developmental B. biogeographic C. genetically isolated
D. discontinuous distribution boold tale athie supposed loss resident and another in the
12. The part of the brain that controls language, memory, sensation and decision making is the:
A. cerebrum  B. thalamus  C. hypothalamus  D. cerebellum
, i a series and i a
13. Which of the following cell types divide to produce cells that make antibodies?
A. B – cells  B. Cytotoxic  C. Neutrophils  D. Helper T – cells
C. Leydig California and Leydig Compile Compil
14. Earthworms have a large number of looped blood capillaries in their epidermis in order to:
A. reduce the diffusion distance between the body surface and blood vessels
B. provide large surface area for diffusion at a D. C. Birthloray and D. A. gland and a strong at A. A.
C. increase the pumping action if pseudo hearts
D. maintain a steep concentration gradient for gaseous exchange in the concentration of a second of a
A. Tour cells containing one homologous of each homologous pair
15. In each of the following cases an RH- mother is not likely to develop antibodies against
RH+ foetus except when she is of blood group O and the foetus is of blood group:
A. AB  B. O tied enegolom C. Area to enogolomo D. B. antinier co elles and C.
16. In the course of pregnancy, the placenta takes over the role of producing oestrogen and
progesterone because:
A. menstruation is terminated  B. menstruation has commenced
C. corpus luteum has degenerated D. corpus luteum has persisted
During water stress, photosyribusis reduces in plantschaftly due to shortege often stay was. C
17. Which of the following pairs of structures are NOT homologous?
A. Arms of humans and wings of hirds
B. Legs off insects and those of mammals seucond signification and the second significant and the second significant and the second significant significant and second significant significant and second significant signific
C. Pods of beans and pericarps of maize grains and electrical and above an amatino and above an amatino and above and amatino and appropriate
D. Pectoral fins of fish and arms of humans in the Difference of t
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18. Excessive variation in the calcium i	on content of blood may result	t into:
<ul><li>A. dehydration of the body</li><li>C. neuromuscular disturbances</li></ul>	B. mental retardat D. hardening of b	ones
19. Which of the following is NOT four A. Sugars B. ATB		तंत्रतात्त्व कालेक्षीयमञ्जू है। वस्य त
19. Which of the following is NOT for	and in the hadre calls of obligate	es anaerobes?
A. Sugars B. ATB	nd in the body cens of obligate	D. Mitochondria
500000	C. Glycolytic enzymes	gymn mainingog allego
20. Which one of the following is the p		issue?
A. Filtration of foreign particles		o eis maiano prateo distribili co
B. Production and storage of wh	ite blood cells	opposent of all letters with all the
C. Transport of excess tissue flu		s Sammarko
D. Transport of cholesterol mole	onles into the black	refinestrati stronume este
and the second section of the second section in the second section section in the second section s	ecures into the blood	
21. Which one of the following is		
21. Which one of the following is a form	m of vegetative propagation?	i stougoo isal sur u buj se sa
A. Spore formation B. Conjug	gation C. Budding	D. Parthenogenesis
22. In which of the following parts of n	nammalian tastis deservice	ara. 18
A. Primodial germ cells	naminanan testis does meiosis	occur?
<ul><li>A. Primodial germ cells</li><li>C. Leydig cells</li></ul>	B. Seminiferous to	ubules
20 analysis and a second	D. Sertoli cells	
23. Which of the following harmons:	looped plood cipillaries in the	je is granii kilati n e verj sur m
23. Which of the following hormones i  A. Secretin  B. Cholec	s secreted by an organ that is all cystokinin C. Gastrin	lso its target?  D. Prolactin
24. Telophase I of majoris rogulta in	ansái dáutarí	i sensa the pumping action if
24. Telophase I of meiosis results in pr	oduction of:	Lincillo a stoop concentration
A. four cells containing one hon	nologous of each homologous r	pair
B. four cells containing both hor C. two cells containing one hom	mologous of each homologous	pairus cassa gaivotjas estato
C. two cells containing one hom D. two cells containing both hor	lologous of each homologous p	airi lo al ude test a Inches e
D. two cells containing both hor	mologous of each homologous	pair O A &
25. Both ATP and NADPH are produce A. in the Calvin cycle	<b>ed:</b> Alberg la slavontino e estat em	make the same and a serve
C in the light d	B. within the leaf	the state of the s
C. in the light dependent reaction	ons D. within the strop	no efections and
the lateral and a property of the first first	S reduces in plants	ma of chloroplast
A. carbon dioxide B. minera	al salts C. sunlight	o shortage of:
	al salts C. sunlight	D. water an world od !
27. Messenger RNA is important in production of the code for protein syntheses.	Otein synthesis base	d to spring hop suspend to soft
A. contains the code for protein synthes	sis Decause it:	as off insects and those of the
C. carries the code from DNA to polyri	- courses the code	e from Dara
	D. has sites for at	tachment of amino acids
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S. L. Below is the Experience and including

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35.

A. Cytoplasm, o	produced and used in cent	B. Cytoplasm, mi		
C. Mitochondria	· -	D. Mitochondria,		
••		si esseptial umbia ad	) arriknov jnivokol utvi 1 d	0 (19 (
	of the acrosome reaction i	s to:		
A. activate the		B. improve sperm	penetration of the eggs	ાવી!
C. prevent doub	ele fertilisation of the eggs	D. improve sperm	motility	
<b>30.</b> Consider four hum population that will	an populations that differ d grow most in the next 30 y	emographically only years is the one with:	in their age structure. Th	ne
A. 10 – 20 year	rs B. 20 – 30 years	C. 40 – 50 years	D. 50 – 60 years	
31. For which one of the	he following diseases is mo	squito the vector?		
	iasis B. Yellow fever		D. Typhoid	
<b>32.</b> Which f the follow seedlings from 3 to	ving is the best method to use 6 weeks?	se for measuring the	growth rate of sorghum	
A. Fresh weigh	t B. Height	C. Dry weight	D. Number of leaves	9914 A
33. Which of the follo	wing mammalian organs ha	s both exocrine and	endocrine functions?	
		B. Stomach and sa		
C. Stomach and	The state of the s	D. Pancreas and pi	The state of the s	
34. The main value of	conservation of living orga	nisms is to:	e below shows the effect	Mai
	olutionary changes	B. allow the popul	ation to increase	
C. maintain ger	netic diversity	D. keep ecological	balance	
35. Which of the follo	owing combinations would i	esult in more energy	being fixed by	<i>i</i> .
chloroplasts for ph	otosynthesis?	No. of the second	la de	- 6
7	ntensity of long wavelength		W	3
B. Low light in	ntensity of long wavelength		Las &	
	ntensity of short wavelength			. 4
D. Low light in	ntensity of short wavelength	- Allerander	- 58 E	
36. Albinism is reces	sive to normal skin pigment	in humans. In a popu	lation where the	de
frequency of the a	lbino allele is 10% of the to		The state of the s	5
people are expecte		C 190/	D 0104	
A. 81%	B. 1%	C. 18%	D. 91%	
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS		1 2 2 2 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1		
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37. Below is the list of some amino acids:

- (i) alanine
- (iv) histidine
- (ii) arginine
- (v) leucine

(iii) glycine (vi) lysine

Which of the following consists of essential amino acids?

ogenphicalité and the Beir and denough Tile

- A. (i), (ii), (iii)
- B. (ii), (iv), (v)
- C. (i), (iii), (iv)
- D. (ii), (v), (vi)

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. Algebra armanistra

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38. The following are trisonic conditions except:

- A. Klinefelter's syndrome
- B. Down's syndrome

D. XXX female

39. Among the allopatric species of anopheles mosquitoes, some live in brackish water, some in running water and others in stagnant water. What type of reproductive barrier is most obviously separating these different species?

A. Mechanical barrier

B. Post zygotic barrier

C. Ecological isolation

D. Behavioural isolation

40. Given that two genes are linked and no crossing-over occurs between them. What would be the proportions of the F1 generation if a double recessive parent is crossed with a double heterozygous one?

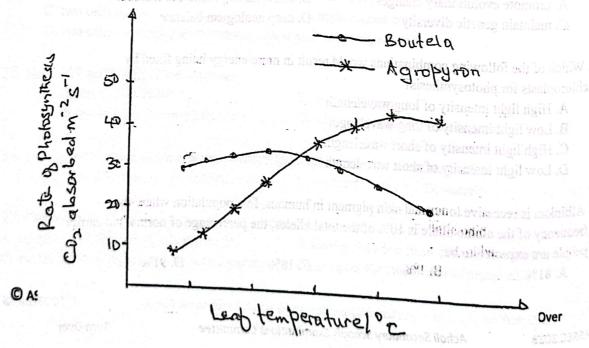
- A. 3:1
- B.9:3:3:1
- C. 1:1

# elicitismil california bas online SECTION B ageo nationalism galaxol les entre es

Answers to this section should be written in the spaces provided and NOT anywhere else. D. Panersas and nimitary gland

### Question 41:

The figure below shows the effect of temperature on the rate of photosynthesis of two grasses in Agropyron and Boutela.



(a) State how different the effects grasses.	fect of leaf temper	rature on the r	rate of photos	synthesis in both (03 marks)
duting andward W	en of R for red and	edge own ye ba	nimmatat in	woll other back a
waddocan how	dintaib alambiy ibni s	niwolloù wir en	noimheach l	re tree-pietely domana
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	UE.	Care more de	njrۯ	
	• • • • • • • • • • • • • • • • • • • •			••••••
				a). Using the information pr
(eg.planka)	WITKOM TO CHORP	innorre indeption		oth Actorolamn (1)
(b) Giving a reason in each case				
(b) Giving a reason in each case	s, suggest which of the	ne two grasses is	s likely to gro	
(i) Temperate climate				(02 marks)
		*************		
•••••••••••••••••••••••••••••••••••••••				
(ii) Tropical climate			~	(02 marks)
A COLOR DE LA COLO	airman man			management and a section
(symm.60)			a ireesin gasan	windawing oby (ii)
( ) T 1 : 1	4b ofb	atazmthasis is	A	(02
(c) Explain the effect of tempera	ture on the rate of pr	iotosyntnesis in	Agrophyron. (	(03 marks)
18				
So Evoluin the sale of t	he following in term	induger smaltre	on:	
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Otestion	44:							•									

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In sweet potato flower, colour is determined by two alleles of R for red and W for white which are it completely dominant. A population has the following individuals distributed as follows:

Flower colour	Number of individuals
Red	450
Pink	500
White	50

(a) Using the information provided, determine the:	
(i) total number of R and W alleles in the population	on. Show your working. (03 marks)
so grasses is likely to grow faster in (a): 1, 2, 3	Gwierr season in each case, souldst tyhich of the fa
(02 marks)	(u Femperate dimate
d. Given that it is not been because the self-time and an exercise	
	. 00.000
rezitim Sil)	
(0.2 marks)	(ii) Feon'ted elimate
**************************************	
(ii) genotype frequency of each genotype	***************************************
(ii) genotype frequency of each genotype	(03 marks)
***************************************	
ombesis a Acrophyron (12 marks)	
S. S	ofolia se erree or empressus on the est se diploto
	***************************************
· · · · · · · · · · · · · · · · · · ·	
	***************************************
(iii) allile frequencies of each allele.	***************************************
(iii) alltle frequencies of each allele.	(02 marks)
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(93 marks)	······································	······································
	••••	CARVE VIEW DATA
(b) State <u>four</u> causes of chang population.	ge in the allele frequencies and genoty	pe frequencies in a (02 marks)
		•••••••••••••••••••••••••••••••••••••••
		••••••
	••••••	•••••••••••••••••••••••••••••••••••••••
Question 43:  (a) Explain the changes in the me  (i) lowers below the lower cri	etabolic rate of a mammal when the environ	mental temperature: 194 go
	as a aoint a an saint an gasha a inteasan.	
	Pure norvous control  Beth nervous and hormonal	Mouth Stemach
(ii) rises above the upper critic	cal temperature	(02 marks)
igostive julče along (06 marks)	s observed trend of control of secretion of d	State the significance of the
••••••		
b) Explain the role of the following (i) Hypothalamus	ng in temperature regulation:	(03 marks)
•••••		***************************************
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est processor in the contract of the contract	entra de la compansa
	g conserv of charge to the altern inconnected and nanotum
(02 marks)	
sental temperature : :44	the changes in the metabolic rate of a magninal when the cavironn
below shows control of	digestion along the alimentary canal of a human being.
Parts of Canal	digestion along the alimentary canal of a human being.  Mechanism controlling digestive juice secretion
Parts of Canal Mouth	digestion along the alimentary canal of a human being.
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Parts of Canal  Mouth Stomach Duodenum  tate the significance of the alimentary canal.	Mechanism controlling digestive juice secretion Pure nervous control Both nervous and hormonal Purely hormonal he observed trend of control of secretion of digestive juice along (06 marks)
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8.3	tamat managanan an alikariv	llov. Z. erlem steelet
	regular Value i	
(b) Give the roles of tw	vo named hormones in stimulating the secret	
the duodenum.	the secret	ion of digestive juices in
		(04 marks)
	atolye shell lemake	i o jow mele x to
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	August at charge of	
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naic and a tortoise	het the results of a cies three vrag a black r	no a Pur Joi Square, ore
(6)4 marks)		alnu-si ii
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estion 45: State <u>four</u> ideas put forw	da See equençally Jernales.	(03 marks)
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Parents	Off-springs
Black male x yellow female	½ yellow males ½ tortoise shell females
Yellow male x black female	½ black males ½ tortoise shell females
Yellow male x tortoise shell female	1/4 black males 1/4 yellow males 1/4 yellow females 1/4 tortoise females

From the data gi	iven, suggest the type of inheritance exhibited.	(01 mark)
(c) Using a Punnet shell female.	Square, predict the results of a cross involving a black	male and a tortoise (04 marks)
. طاحی	guine Microcloes's work on genesics. (03	west and serpt to a sign con-
Arra and area		
20. 21. C		•••••
(d) Explain why tor	toise shell cats are normally females.	(02 marks)
	ുജർത്ത് യിഷ്ട തില് നിന്നു ശാര് - ഒം വരാ പ്രിവേദ	ena sol cerbart moraza rel
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Question 46:  (a) Distinguish between magnification and resolving power of a microso	cope. (02 marks)
(b) In an investigation under medium power of a microscope, the numb an onion leaf observed across a diameter of field of view was 100. T of view as 3mm:	per of anidownal acilia as
(i) Work out the average length of each cell in micrometres.	(03 marks)
***************************************	
••••••	•
••••••	
CIVES .	
	•••••••••••••••••••••••••••••••••••••••
(ii) The figure below shows a candidate's drawing of one of the comicroscope.	ell observed under this
	<b>.</b>

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Acholi Secondary Schools Examinations Committee Turn Over

What are the advantages of a light microscope over an electron microscope? (03 marks)  Available in the state of the state	work out the magnification of the	e drawing, o reword anish and beginning the	(oz mars
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