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Paper 1	Theory)	ains is deficient i B. Vitar	Which of the following vitat	
- 1 M	0 th August 202	FRIDE A. LEY	A Vitamin C	
2 hours 30	minutes		O. Visiquin E	
Slamnis	an a ni noitstar	occurs during exi		
ACHOLI SECUNL	JAKT SCH	OOLS EXAM	INATIONS COMMITTE	E
	Uganda Cei	rtificate of Edu	C External interco noitani	
nifeem intervals. After	Joint Mock	Examinations	A root tip of a bean 2023	
rs. The conclusion from	nger than other	BIOLOGY	A root tip of a bean seemed days, it was noted that some	
	(mi) toos who.	(Theory)	this is that: A. The ink-accelerated grow	
	15.55.8 VE FOR	Fauel III	2 PM PARTY AND	
n tip is not uniform.		120 20 miles 4 4	Thu sate of cell chargen	
e in short intervers	more than thos	als differentialed	D. Cotts in the langer interv	
(CT)				
			Which one of the following	
✓ Answer ALL the q	uestions in sec	BOTTORING BURNEY A SINGE		
		tions A and B; an	d any TWO questions from se	ctic
C.		clayers of the eye	B. Proteots tric delicate inno	
C. Answers to section	A must be wri	itten in the boxes	provided against each number	
C. ✓ Answers to section ✓ Answers to section	A must be write a B must be write a C must be wr	itten in the boxes itten in the spaces itten on a separate	provided against each number provided.	
 C. ✓ Answers to section ✓ Answers to section ✓ Answers to section 	A must be write B must be write C must be write	itten in the boxes itten in the spaces itten on a separate	provided against each number provided. e sheet of paper / booklet.	
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SECTION A (30 marks)

Answer ALL questions in this section. Write the letter representing the most correct answer to each question, in the box provided.

1.	Which of the follow	ving vitamins is defic	ient in a person whos	e gum bleeds?	
	A. Vitamin C	B.	Vitamin D		
	C. Vitamin E		Vitamin K		
2.	Which one of the fo	ollowing occurs durin	g exhalation in a mar	nmal?	
1	A. Diaphragm mus		Volume of the thorax	increases	
* *	C. External intercos		Diaphragm muscle co		
3.	A root tip of a bean	seedling was marked	l with black ink at uni	form intervals.	After 3
	days, it was noted t this is that:	hat some intervals we	ere longer than others.	The conclusion	from
	A. The ink accelera	ated growth in some p	arts of the root tip.		19413
		owth in some parts of			
			rent parts of the root t	ip is not uniform	
<i>y</i>	D. Cells in the long	ger intervals differenti	ated more than those i	n short intervals.	
4.			on of the choroid of the	e mammalian ey	e?
	A. Absorption of li	ght to prevent total in	ternal reflection.		
	B. Protects the deli	cate inner layers of th	e eye.		
	C. Transmits senso	ry impulses from the	retina to the brain for i	nterpretation.	
15	D. Provides nutrien	its and oxygen to the	cornea and eye lens.		
5.	An endosperm is fo	rmed in plants when	the second male nucle	us fuses with the	1. 11.
	A. Egg nucleus		Antipodal cells		
	C. Embryo	D . 1	Polar nuclei		V
6.	In estimating the po	opulation of Nile perc	h in fish cage, 80 fish	were captured, n	narked
	and released. After	2 days, 50 fish were o	aptured and out of wh	ich 20 were bear	rded
	marks. The populat	ion of Nile perch in h			1 a
	A. 300	B. 400	C. 200	D. 100	
7.	In man, the oestrus	cycle is also known a	s:		
	A. Heat period	B. Gestation period		D. Lactation	cycle
8.	Which one of the fo	ollowing pairs of bone	s form a ball and sock	et joint?	
· - •	A. Humerus and ul				
	B. Femur and pelvi				
	C. Humerus and ra	dius	The first		- 1
	D. Femur and tibia			on the said	
		•			

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9.		ants, a transpiration stream	is maintained by:	A There was face	
	A. Diffusion	B. Active transport	C. Osmosis	D. Capillarity	
10.	The part of a to	oth which has living tissue	is called:	processor for C	
	A. Enamel	B. Cement	C. Crown	D. Pulp cavity	1
11.	The ratio of the	phenotypes when a roan b	ull and a roan cow a	re crossed is:	1
	A. 2 red: 1 roa		B. 1 red: 2 roan:	: 1 white	
1 0753	C. 1 red: 1 wh	ite Anoused Equip of F.G	D. 1 red: 1 roan	: 2 white	
12.	The absence of	f nucleus in a mature erythro	ocyte is to:	I be menderanes P	2.3
		ell carry more dissolved for		n fochenors resp	1
	The second secon	ell carry more oxygen.		4	
		ssage of the cell through cap	oillary linings.	smetara to agaza q	
		e space for antibodies.	Ç. 18	1.8	
12	Which of the	following processes increase	es the amount of nitr	ogen in the atmosphere	12
13.			C. Excretion	D. Putrification	
	A. Denitrifica	tion B. Nitrification	C. Excletion	. Pan goisti A	\neg
14.	The following	results were obtained durin	o the analysis of a g	iven soil sample.	
14.	Volume of so	il used = 100 cm^3	oden mer earrander	Minch one of the	1.5
		ater used = 200 cm^3	s boold lo managa r	A don stee blood to	
			ritms da er reden biso	A. Autibodies a w	
		ater + Soil after stirring = 27	THE PLANT DEPL	w dushoditeA 1	7
		percentage of air in the soil	C. 8%	(Anyone a swi	
	A. 24%	B. 92% bns Alans	gina di e tossa bluo	# depho lanA	319
15.	Which of the	following sets of materials i	s received by a preg	nant mother from the	
	foetus?	ntrems consists of disaccing	en to smad Reserves	Then to bee commy.	23
	F (10.00)	oxide and glucose		A. Gincose and ga	7
	B. Amino ac		(40 marks) scoto	C. Maitose and lac	
				The state of the second	
	D. Glucose a	carbon dioxide nd amino acids	enibetign is a too	Retation of a 1 .	22.
	D. Glucose a	nd animo acids		A. Dorsal	
16.	Which one of	the following statements co	prectly describes th	e situation illustrated in	
10.		f numbers in the figure belo		101229132	
	me pyramiu o	I numbers in the figure bei		D. Pector.	
	in introperific	Sec effect of or recending	ed tog w	Which one o	ES
		Sec	condary consumers	competition?	0.000
	N/E	ivaried tancing T. E.			
	1	Pri	mai y consumers	A. Failure to cop.	
		001000.03000 000 12		C. Batting the young	
		Pro	oducers		
to the same of	ordorate at the	n upd nourriger Jidonae n	racassa arganizali		M
				Contradção	
	D. Haxymes	C. Carbon dioxide	A Oxygon	A. Glueuse	
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AD.	18 18 18 18 18 18 18 18 18 18 18 18 18 1	Action The State of the State o	THE PARTY OF THE P	ACCOUNTY AND ASSESSMENT OF STREET	

	A. There are few	er primary consumers to	han secondary consumers.	A I A
			size than primary consumers.	- to the
		s represent grasses.	and what sed docks died in the	ing man of
	D. There are few	ver secondary consumer	s than primary consumers.	
17.	Which one of th	e following changes occook to look at a bird fly	our in the eye when a person lifts ring in the sky?	
	A. The ciliary m		B. The radial muscles of the	e iris contract.
1	C. The lens bec		D. The pupil becomes large	er.
10	The members	D O D and Swere foll	nd to have average of 3, 4, 12 an	d 2
18.	The memoranes	or, Q, R and S were road	ch of the four membranes is like	ly to allow
	mitochondria re	espectively per cen. win	7	Tell - Line
		erials by active transport	C. R D. S	might to the
	A. P	B. Q	10 (50%) 6 7 1 7 1	<i>(</i>
19.	Which one of t	he following is not an ad	aptation of plant leaves for photo	synthesis?
-	A. Possession		B. Presence of intercellular	spaces.
	C. Being hairy.	12422	D. Having a thin lamina.	
20.	Which one of t	he following reactions is	likely to occur when a person of	f blood group
	A donates bloo	d to a person of blood gr	roup B?	- 7
)	A. Antibodies	a would react with antige	ens A.	of the first
	B. Antibodies	b would react with antigo	ens B.	w India
	C. Antibodies	a would react with antige	ens B	
	D. Antibodies	b would react with antig	ens A and B.	
	ed_1,1,1	a. C. Ilamina paim of my	trients consists of disaccharides	only?
21.	Which one of	me following pairs of he	B. Fructose and sucrose.	A STATE OF THE STA
	A. Glucose ar		D. Sucrose and glucose.	AL
	C. Maltose an			
22.	Rotation of a f	ish about its longitudina	l axis during swimming is counted	eracted by:
	A. Dorsal and			118
	B. Ventral and	pectoral fins.	eranagan sibili gar erakat egelerek	10 W
	C. Pectoral and	d pelvic fins.		
	D. Pectoral and	d ventral fins.		
00	Which one of	the following may not be	e an effect of overcrowding in in	traspecific
23.		Company of the Company	-	
	competition?	1oto	B. Territorial behaviour	1 1
	A. Failure to c	the same of the sa	D. Increased abortions	
	C. Eating the y			
24.	Which one of	he following is needed	in aerobic respiration but not in	anaerobic
	respiration?			
	A. Glucose	B. Oxygen	C. Carbon dioxide D.	Enzymes
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25.	The biological method	A 12			
	A. Application of pest	icides to kill the pest	अपने व्यक्ति को सिल्डा	(a) Thew a sieph to rep	
	B. Interruption of the	ests breeding cycles	ing and as w bointing me	od SI de de pai asi (d)	
	C. Destruction of pests		es.	(i) (icases)	
	D. Introduction of the	pests' predators.	·· · · · · · · · · · · · · · · · · · ·	Might de le commence	
				in the	
26.	Messages across a syn	apse is by means of:		9-4-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
	A. Electrical current	B. Chemicals	C. Impulses	D. Mechanical	
27.				the eye. This causes a	
	blurred image. Such a			ing long	
	A. Wearing a divergir	_			
	C. Wearing a cylindri		D. Wearing specta	cles	
28.	A prickly pear is a su	My the number of the	d stree weth	leaves in form of	
20.			Seattle the Seattle Se	расинская соок ы п	
	spines. Such a plant i			05 (10((1)	
	A. Water deficient ar	ea	B. Water logged a	·············	
	C. Hilly area		D. Low land		
29.	The process of meios	is is very important i	n living organisms du	ring:	
	A. Growth of the org		B. Increasing number of body cells		
	C. Cell specialisation		D. Formation of g	CONTRACTOR OF THE PARTY OF THE	
* 1	C. Con specialisation		2,100	***************************************	
30.	A patient was diagno	sed with prolonged b	leeding upon sustain	ing an injury. Which	
	one of the following	•			
	A. Vitamin D		B. Vitamin K	(d) (i) The last rate of p	
	C. Vitamin B ₆		D. Vitamin B ₁₂		
2 1 9	O. Vitalini Do		D. Vitalinin Diz	***************************************	
		SECTION B	(40 marks)		
120	wer ALL the questions in			ha snacas providad	
AIIS	wer ALL the questions th	ims section. Answer	s must be written in i	ne spaces provided.	
0		Vimbonion			
-	stion 31:				
	experiment was carried of				
	perature was kept consta	nt throughout the exp	periment. The follow	ing table shows the	
resu	Its of the experiment:		17	anner all mosts fills	
(est	am 40)	Time in hours	Number of	(ii) From the shape of	
	44		paramecium **	ollanges of the paran	
		0	10	44	
* * *	arean and a second	12	20	********************	
		24	55	he - many many and many	
	e e contra de deservir e	36	190	The Control of the service of	
		48	245	1	
		60	260	27277 / 1 1 24222222	
		72	265		
		84	265		

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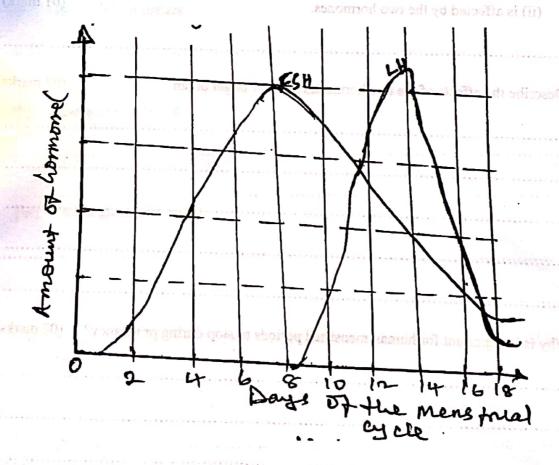
553/1			- 1 tal. of 35
	The same that the	far the year to be from	(06 marks)
(a) Draw a graph to represe	nt the data above.	The Marie American Inc.	nocia:
(a) Draw a graph to represe (b) During which 12 hour p	eriod was the popula	ation increase of the parar	necia.
(b) During which 12 hour p	e la come	Called Merchanic District	in mercia
(i) Greatest?			
The second section of the second second			The Action of th
Labora and all of the	"less (norm) .")	sessed H. Tent	, langitudes . A.
e sesses still a sessitifat	alter ad handed trin		
	40 Lot 6 h	# 21/LENGTURE FOR THE PROPERTY OF THE PARTY	
boat at fire in	YEARSON'S		
	THE RESERVE AND ADDRESS OF THE PARTY OF THE	(A)	
		n the number of hours the	population of
paramecia took to incre	ease from:	n the number of hours the disk tacky took as a line when the control of or visit is a make a	and a night
(i) 30 to 50	in the same of the	plant fillely id be form	Aniversely American
Asta 1	is Water logos	a Processor Long Response	
	D. Fow land		
		ristroda Pyrov ži vikor	•••••
12. Value	BENEVICE AND SERVICE OF	mainway 500	
(ii) 50 to 100	m more and the	me organism . A s.	
	and the second second	edialog atra promisib	
		S. THE PROPERTY OF THE	It is not
(d) (i) The fast rate of pop	ulation increase was	for a short while. Explain	Change
Life of the state of the	Andrew 1 de la	consists at disacco	THIRDY D
	(Férran (%)	H ACALDEECE OF THE PROPERTY OF	
	Control of the state of the sta	HERRY HOLL OF STUDY AND PROPERTY.	Augmen, 417 inc dress
the vice amorism The	ation growth in r	tried out to that the popul	An extruction that on
	Unit variation (194)	o on Mongioru marano	ice y case amisochung
	comb what co	uld be the conclusion rega	arding the nonulation
		read at savil.	(04 marks)
changes of the parame	cla (ne sentera		(O4 marks)
	510	()	
1 - 2 - 3 - 4	4 001	A CONTRACTOR	
	245	0.7	•••••
14 · 被用点 60。	Wei	03	
			•••••
V 10 10 1	735	44 44	
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			THE BUILDING BUILDINGS	
(e) W	hat factors do you think co	ontributed to very	y slow rate of growth of the p	aramecia
		Transfer of the second of the	The state of the s	
	Taken areas			
		himina Wala	hed glacese.	

•••••			1. 242-72 z r× - 1.	

Question 32:

The figure below shows the relative amount of follicle stimulating hormone (FSH) and luteinising hormone (LH) in the blood stream of a woman during the first 18 days of the menstrual cycle.



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(a) Describe how the amounts of the two hormones change during the period	od shown. (04 marks)
Syou thank contributed to redow rate of are one of the gase less as	L enothed mail
	······································
(b) State the organ which: (i) secretes the two hormones. A playlor to muoras avanajes and swoods and the seal and add add and the second and add add and (H.I.) and	(01 mark)
(ii) is affected by the two hormones.	(01 mark)
(c) Describe the effects of the two hormones on their target organ.	(02 marks)
	7 3
	4
(d) Why is it important for human menstrual periods to stop during pregnand	cy? (02 marks)
Leins siam sit for sport	
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Question 33: The diagram below	represents blood capil	lary and the sur	rounding tissues.	
		boold sait to a		Body Tusture
More O2	Less con	more gi	ucose .	
· · · · · · · · · · · · · · · · · · ·		₩ CO2	rest amore	
the capillary ar	rrows, show how each and the blood on the diag rocess by which substa	gram above.		(1½ marks)
	urce of high amounts o	f the following	substances?	(03 marks)
(ii) more C	CO ₂ in blood.			11.00.00 (Juli) 11.00.00 (Juli) 11.00.00 (Juli)
(iii) more g	lucose in blood			
				Marie Propinsi Cara
(i) Tissues	e the fate of the substan			(03 marks)
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The End.