NAME: no	CENTRE/ INDEX No
SCHOOL	SIGNATURE:
SCHOOL	
BIOLOGY	
(Theory)	
PAPER 1	The second of th
July/August 2018	HAKISSIH
2 ¹ / ₂ hours	((ate))

WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

BIOLOGY

(THEORY)

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

- This paper consists of three sections; A, B and C.
- Answer all questions in sections A and B, and any two questions from section C.
- Any additional questions answered will not be marked.
- Answers to section A should be written in the boxes provided, on the right side.
- Answers to section B should be written in the spaces provided.
- Answers to section C should be written in the answer booklet/sheets provided.

	For Examiner's use only						
Sec	ction	Marks	Examiner's Initials & No.				
A		politica de la companya della companya della companya de la companya de la companya della compan	**	$\mathcal{F} = \mathcal{G}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}}}}}(A_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}}}}}})$			
В	No. 31	Superior Color		15			
D	No. 32	Page 1 . Page 1 . 14.			:		
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C	Nö.				500		
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To	otal				در		

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Turn Over

SECTION A (30 MARKS)

Answer all questions in this section.

1.	The f	llowing gran	h chail	NIKALI	-1	concentration	on in a héa	Ithy perso	n. 15/0
1.		ollowing grap , during and			glucose	concentration	on in a nea	itily person	
70	OCIOIC		A .						2000
		n in	mg/100cm³						
		Blood glucose	30cm	/				138	3.7
		ood 2)1/gr				25 656	400.J	li ilel
	,	BK	-					17705	dir
11.00				begins 3 hours	after meal	Time in hours		1 1119	
	What	hormone cau	ses the	decrease in	glucose		ours after	the meal?	ate/Au
,	A.	Antidiuretic				1	0	Rouse vor	
	B	Glucagon.				1		H- H- DE	METAL UNI
	C	Insulin.	2 1 4					1.0	
	D.	Oestrogen.	A-117.1	AXATO	F	AND THE	Christy A.	2.0	* 7
2.	Which	n one of the f	ollowin			e change fro	m plant pr	oteins to	サール
		nium compo							
1	A.	Nitrification				G C			
74.	B.	Putrification			1.41.4				V-0
	C.	Fermentatio	10	1 Garage	11.11.1				Secretary and
	D.	Denitrificati	on.						35 4
3.	In cel	l division chr	omosor	nes align alo	ong the e	quatorial reg	gion during		
	Α.	Anaphase.	2 1	1964		1 1			
	В.	Telephase.		enterlia	H a	A 1	p. 9-3	1.6	
	C.	Prophase.						100	
	D.	Metaphase.			100	SHOW S	ON SMO	TRUCT	2/1
4.	The s	uccess of a m	osquito	in spreading	g pathog	ens may be a	attributed t	o presence	of;
the same	Λ.	willes and c	laws.						
	В.	legs and wir				HD Charles High			
	C.	proboscis ar	id wing	S	, a che n'	diegas e ik.	unio apani	thing aids	•
die.	D.,	proboscis ar	id claw	S. Graning	Strange .	A. Stadish	ment in a	. Warney h	*
5.		itial Amino ac				ial because t	hey	i Abalienti	2
.)	-	are the only	one the	body requi	res.	a men. A	. dr	The section is	2
	B.					y can make	them.	Г	
	C.	can only be					10 14 14 14 14 14 14 14 14 14 14 14 14 14	* **	2
	D .	The second	4			y cannot ma		L	
.6.	Whic	h sequence de	escribes	the flow of	energy i	n an ecosyst	em?	tropiet of	
	A.	Carnivore	→.	herbivore	\rightarrow	plant	→ ;	sun	
	В.	Plant		herbivore	->	carnivore	→	sun.	
	C.	Sun	>	carnivore	JE ->	herbiyore	→ ::	plant L	-
	D.	Sun	→	plant	→	herbivore	→ 1.	carnivore	
7.	A fie	ld produces a	poor cr	op vield of	maize aft	er being use	d for the s	me cron f	or
	sever	al years. Bear	is were	grown and	he follo	wing year ma	aize was gi	own again	1
	succe	ssfully. Whic	h of the	following i	s the pro	bable explan	nation of th	e effects o	f
	beans	on the soil?	The						- 15 o
	A.	texture of so					4.5	12	
	В.	amount-of h	umus i	n the soil wa	s increas	sed.			

4	
	C. nitrogen content was increased. D. acidity of the soil was reduced.
8.	Which part of the brain controls reflex activities of the body? A. cerebrum. B. cerebellum. C. medulla oblongata.
	D: hypothalamus.
9.	In which of the following parts of the maize grain are most carbohydrates stored? A. Cotyledon. B. Radicle. C. Endosperm. D. Plumule.
10.	Which one of these cell organelle would be most active at sites where substances move against diffusion gradient? A. Nucleus. B. Mitochondria. C. Chloroplasts. D. Ribosomes.
11.	The following graph shows the concentration of female sex hormones in the blood over time.
	progesterone X Y Time in days
,	What happens at point X and Point Y?
	A. Menstruation Ovulation B. Menstruation Repair of uterus wall lining C. Repair of uterus wall lining Menstruation D. Repair of uterus wall lining Ovulation
12.	The first step in the test for starch in a leaf, is to place the leaf in boiling water for about one minute. What is the purpose of this step? To A. denature all enzymes in the leaf. B. make the leaf softer so that it is easier to test for starch.
	C. remove air in the leaf. D. remove chlorophyll from the leaf.
13.	Low land atheletes report for a sports competition organized on high lands three months before the competition? This would be in order for them to acquire.
i de la companya de l	A. higher fat deposits under their skin. B. larger muscles. C. higher erythrocyte numbers. D. higher leucocyte numbers.
14.	A scout standing for long in a parade may faint and fall down. Which of the following is the best explanation? A. There is less oxygen supply to brain. B. The leg muscles became paralysed. Turn Over
	S WASSIGNED TO A Mark Francisco 2018

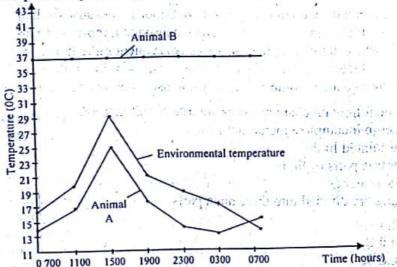
	C. D.		drunk a lot of ald mulation of lacti		muscles.	5. 7. d 2	esta Esp
15.	Which A. B. C. D.	High humidity, Low humidity,	ald cause a plant high temperature low temperature high temperature low temperature	e, high wind e, high wind s e, high wind	speed. speed. speed.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 (A)
16.	He w A. B. C. D.	ose one's pancre ould develop; Kwashiorkor. Diabetes insipi Diabetes mellit Malaria.	dus tus.			i de la companya de l	
17.		storalist will alwards. This is an ecrossing over. artificial inseme cross breeding artificial select	xample of ination.	his herd a bu	ll whose chara	icteristics	ire
18.		Generative nucleone male nucle	ng forms of fusions with egg cell. cleus with egg cell with egg cell nucleus with pola		nto formation	of the prin	nary
19.		ch of the following ace? The pupils become lens becomes pupils become lens becomes	larger. longer. narrower.	one walks o	ut of a brightly	Bip , s, p	
20.	Which A. B. C. D.	ch of the followi Hypermatropi Glaucoma. Myopia. Astigmatism.	an as the same	corrected by	using cylindri	ical lenses	
21.	Acci A. B. C. D.	Persperation. Anaerobic res Panting. Aerobic respir	piration.	es of an athle	ete during exe	rcise is due	to
22.		diagram below s		A B C D			des.
	Whi	ch one of these	parts A. B. C. D	is responsible	e for secondar	v growth?	

1	The state of the s
23.	The following events occur during the upstroke of flapping flight in birds except
	A. pectoralis minor muscles contract.
	B. pectoralis major muscles relax.
	C. pectoralis minor muscles relax.
	D. wings are pulled up wards.
24.	Very small mammals need to feed almost continuously because of their
	A. high surface area: volume ratio hence consequent rapid heat loss.
	B. low surface area: volume ratio hence consequent rapid heat loss.
	C. high surface area: volume ratio hence consequent low heat loss.
	D. low surface area: volume ratio hence consequent low heat loss.
25.	Which of the following characteristics are true for all insects?
20.	P undergo incomplete metamorphosis.
- 1	R bear jointed limbs.
	S bear tree pairs of limbs.
	Q possess wings.
	T bodies are divided into three main parts.
200	A. P and S.
	P T-=30
	C. T and Sod
	D. R and P.
26.	D. R and P. Which one of the following cells are for food storage in plant?
20.	
	A. Collenchyma cells. B. Guard cells.
	C. Parenchyma cells.
	D. Sieve tube cells.
0.7	14.475
27.	Which of the following bones are connected to form a pivot joint? A. Atlas and Axis.
100	B. Femurand tibia. C. carpels and wrist.
	Description Humerus and scapula.
28.	The best method to determine the population of Oxalis species plant is?
\$3	A. quadrat method.
	B. capture mark, recapture method.
	C. line transect.
20	D. direct counting.
29.	After a volcanic eruption has covered an area with lava, which of the following is the
	most likely order of succession of the area?
	A. Lichens
	B. Mosses grasses lichens trees C. Grasses Mosses lichens
	D. Shrubs grasses trees lichens
30.	Which one of the following parts of the middle ear is linked to the inner ear?
	A. Auditory nerve.
	B. Eardrum.
	C. Cochlea.
	D. Oval window.
	T O
	• WAKISSHA Joint Mock Examinations 2018
	and the second control of the second control

SECTION B (40 MARKS)

Answer all questions in this section, writing your answers in the spaces provided.

 The figure below shows graphs of body temperature of animals A and B plus the environmental temperature plotted against time of the day.



- a) What is the relationship between environmental temperature and the body temperature of animal?
 - i) A ______(1 mark)
 - ii) B______(1 mark)
- b) Explain the relationship between environmental temperature and the body temperature of animal.
 - i) A _______ (1 mark)
 - ii) B (1 mark)
- c) From the graphs predict and explain how active the animals A and B would be at night time. (5 marks)

d) What advantage does this give one animal over the other in respect of being active? (5 marks)

of the care	the transfer of the state to the state of	Auto Agranda
* * * * *		40, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1
		ite is
3		and the same
e) How	are mammals in cold areas adapted to temperature control?	(6'marks)
Wysia Th		
190 (190) - 190	less array that the sea	
u2.5.1.25	The same of the sa	
things.	the second secon	4
(exhant 5)	The surgeries of the sale of the special transfer says says as	2 m 1 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m
Learning -	of a plant and answer the questions	that follow.
Study the	diagram below of flower of a plant and answer the questions	= 3 +
(name I)	The Justin A	5 1 de .
indian -		
	В	
	/	
		-
	C C	
	C C	(1 ¹ / ₂ marks)
a) 1	Name the parts labelled A, B and C.	(1 ¹ / ₂ marks)
THE RESERVE	Name the parts labelled A, B and C.	(1 ¹ / ₂ marks)
dedmes in	A	(1 ¹ / ₂ marks)
dedmes "	B. Statistical Control of the State of the S	(1 ¹ / ₂ marks)
dedmes "	B. Statistical Control of the State of the S	
dedmes "	B. Statistical Control of the State of the S	(1 ¹ / ₂ marks)
dedmes "	B. C. Suggest the agent of pollination for the flower.	(¹/2 mark
b)	B. C. Suggest the agent of pollination for the flower.	(¹/2 mark
jednici i	B. C. Suggest the agent of pollination for the flower. State the adaptations of the flower for the agent of pollination	(¹/2 mark
b)	State the adaptations of the flower for the agent of pollination above.	(¹/2 mark
b)	State the adaptations of the flower for the agent of pollination above.	(¹/2 mark
b)	State the adaptations of the flower for the agent of pollination above.	(¹/2 mark
b)	Suggest the agent of pollination for the flower. State the adaptations of the flower for the agent of pollination above.	(¹/2 mark
b)	B. C. Suggest the agent of pollination for the flower. State the adaptations of the flower for the agent of pollination above.	(¹ / ₂ mark on mentioned in (b) (4 mark
b) (c)	B. C. Suggest the agent of pollination for the flower. State the adaptations of the flower for the agent of pollination above.	(¹ / ₂ mark on mentioned in (b) (4 mark
b)	Suggest the agent of pollination for the flower. State the adaptations of the flower for the agent of pollination above.	(¹ / ₂ mark on mentioned in (b) (4 mark
b) (c)	B. C. Suggest the agent of pollination for the flower. State the adaptations of the flower for the agent of pollination above.	(¹ / ₂ mark on mentioned in (b) (4 mark
b) (c)	B. C. Suggest the agent of pollination for the flower. State the adaptations of the flower for the agent of pollination above.	(¹ / ₂ mark on mentioned in (b) (4 mark
b) (c)	B. C. Suggest the agent of pollination for the flower. State the adaptations of the flower for the agent of pollination above.	(¹ / ₂ mark on mentioned in (b) (4 mark

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33. a	Name a v clotting p Vitamin		n the blood (3 marks)
5	Enzyme	s)	<u> </u>
4.0	Mineral		· · · · · · · · · · · · · · · · · · ·
		sons why knowledge about human blood groups is important	during (3 marks)
c)		o ways by which white blood cells fight micro-organisms.	(2 marks)
4	de nos m	industrial on the second multiplication of the leading of	34-24-5
d	Name t	ne diseases of blood described by the following symptoms.	(2 marks)
	i)	n ability of the blood to clot.	
4	N	The state of the s	
	ii)	Crescent-shaped red blood cells with abnormal hemoglobin.	
£	3	the state of the s	
		SECTION C (30 MARKS)	
yi "		Answer any two questions from this section.	ar or or re-
	33 33 33 34 34 34 34 34 34 34 34 34 34 3	s soil conservation?	(2 marks)
34.	a) What	our ways through which soil fertility can be conserved.	(4 marks)
	b) State i	n why some fish die when large amounts of fertilizers are	i
		into the lake.	(3 marks)
	d) Besid	s fertilizers, state three other water pollutants and their respe	ctive
	effect	to aquatic life.	(6 marks)
			ad to their
35.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the following parts of the human digestive system are adapte	ed to then
	functions;		(4 marks)
	i) mouth		(5 marks)
	ii) stoma	· · · · · · · · · · · · · · · · · · ·	(4 marks)
	i) duad		(2 marks)
	ii) colon	A Company of the Comp	(Z Illaiks)
	a) What	is sexual reproduction?	(2 marks)
36.		ibe the growth of the pollen tube and the process of fertilizat	ion
		wering plants.	(7 marks)
	c) Desc	ribe an experiment to show that oxygen is necessary for germ	ination. (6 marks
27	a) State	the differences between short sightedness and long sightedness	ess. (5 marks
37.	and the second second	is a human eye suited for sight.	(8 marks
		e two other eye defects.	(2 marks
	c) Nam		

FEED BACK



July 1	WAKISSHA JOINT MOCK EXAMINATIONS	
1.20	JULY/AUGUST:	O&A
Do not write in this margin	SUBJECT: BIOLOGY PAPER: 553 SIGNATURE	Do not write in this
	WAKISSHA MARKING GUIDE 2018	margin
	EXPECTED NUMBER OF SCRIPTS: 47,000.	
	SECTION A:	
	1. CV 8. C 15. C 23. C	
	2. B. 9. C 16. C 24. A	
	3. D 10. B 17. D 25. C	
	4. C 11. A 18. D 26. C (30) Mark	\$
	5. D 12. A 19. A 27. A 01 MK@	
	6. D 13. C 20. D 28. A	
	7. C 14. A 21. B 29. A	-
	22· D 30· D	
	(30)	-
_	CECTION 0:	+-
_	SECTION B:	+-
	31. 9)	
-	(i) A: The body temperature of animal A changes / Varries as environmental temperature	re
_	changes / Varries; Ol Mark	5
		1
	Dody to property por Aprimal A increases	
_	Body temperature of Animal A increases with increase in environmental temperature and decreases with decrease in environment	
	decreases with decrease in environment	al
_	temperature;	
_		
11,-	(ii) B: The body temperature of animal B remains constant as environmental temperature changes / Varnes; OI Mark	07
	conclut as environmental temperature	
<i>Jue _</i>	changes / Varies: 01 Mark	
_		
_	Rej: body temperature remains constant alone	1
w.	N.S. Doug	
13871		/
_	- -	

	WAKISSHA JOINT MOCK EXAMINATIONS	
Ì	JULY/AUGUST:	O&A
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	(ji)	
	b) (i) A:-The body temperature of animal A changes/	
	varries as environmental temperature changes	OL Wark
	because it lacke a mechanism of maintaining	
	a constant body temperature; / can't themoregu	late
	ACC Com not regulate its booky temperative	
	UD B: The body temperature of animal B remains	
	constant as environmental temperature changes	
	because it has a mechanism of maintaining a	01 Mark
	constant body temperative; / can thermoregulate	
	Acci Can maintain its body temperature	
	c) - Animal A would be less active; due to low	
	environmental temperature; since it can not maintain	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	05 Marks
	I PATRI OLIO	OI MK@
	constant body temperature;	
	OR	
	- Animal A would be less active; than Animal B;	
	due to low environmental temperature; because	
	animal A can not raise it's body temperature; while	4
	animal B can raise it's body temperature;	
	tive for	
	Rej: inactive active ACLACTIVE TOWN OWITE	
Acc	Bremains active with Ref. Explanation about Acc 1 reduced for test can maintain its body temp, Ref. Explanation about active.	
	d) - Animal B would respond faster; than animal A;	
	(to stimuli) since animal B can maintain it's	
		05 Marks
		DI MK@
	Eurvival of animal B; max 5	
	((AZR.))	

Parent Control	WAKISSHA JOINT MOCK EXAMINATIONS JULY/AUGUST:	0&A
Do not	CANDIDATE'S NAME:INDEX No	Do not write in this
in this margin	SUBJECT: SIGNATURE	margin
	e) - Have (a lot of) fur; (that traps air) to insulate the	02
_	Local against heat loss:	
- du	re - Have a lot of fat; to inculate the body against	
c: Structu	heat loss; / conserve hoat Rej fats are broken down to hear loss; / conserve hoat Rej fats are broken down to have a small surface area to Volume	e e
i Functi	ne - Large; and so have a small surface were with	
	ratio for less heat loss; - They are generally large; to produce much heat;	
	(to compensate the lost heat).	
,	- Have Small extremities; to reduce surface area	
	Any Oz Correct for	(
	O6 Nav	4
	ACCI Structure alone TOTAL = (20) OIMK	@
_	Rej: Function alone without structure.	
	\ <u>\</u>	
-	32. q) A - Stigma; Rej:-Wrong spelling B - Bract & glume - plurals	
-	B- Bract & glume - plurals	
	C- Anther OB Marks, OB MK @	-
	b) Windy of MK	_
	podexible the flax for	1
	A Tell aget to allow Anthers to have the	y Mai
-	Acceptant (outside) and shake with the slightest wind	of
	t we have pollen artins?	-
-	- Long feathery Stigma; / extended exposed/	33
_	divided to tray pollen grains in air;	
	- Large anthers; to produce many pollen grains	1
-	D on sweet Drives	_
	Apply independent maneury of Marks of Marks	
	Apply independent mancing 04 Marks	
-	Dai Any Other Characteristics of	
_	a a lastinated flowers not	
_	portrayed by in the diagrams	

Î	WAKISSHA JOINT MOCK EXAMINATIONS JULY/AUGUST:	0&A
Do not write in this orangio	SUBJECT: PAPER SIGNATURE.	Do not write in this margin
	d) - stigmas are above the anthers; - self cterility in some plants; I in compatibility - When the stigma Matures before anthers; I protogypy - When the anthers mature before stigma; I protogypy - When male and female flowers are borne on different plants; I unisexual flowers I disecus plants - stamens hang outside the corolla;	Any 04 OH Marks OI MK@
	- Physical barrier between stamens and stigma; her Kogamy TOTAL = (10) MARKS 33 9) Vitamin - Vitamin K; Phylloguinone	
Reg: (Enzymes - Thromboplastin; / thrombokinase or - Thrombin. 01 MK calcit Mineral - Calcium; / 03 Mc b) - For matching of antigens; / antibodies; of	
Ref	(donor and recepient) to prevent agglutination;	
	c) - phagocytusis engulfing microbes ingesting mu - production of antibodius; antitoxins 02	marks Marks nk@ mark
	(ii) - Sickle cells (anaemia); TOTAL = (10) MARKS	mark of

	WAKISSHA JOINT MOCK EXAMINATIONS	O&A
	JULY/AUGUST:	Oak
Do not	CANDIDATE'S NAME:INDEX No	Do not
write in this margin	SUBJECT:PAPER:SIGNATURE	write in this margin
	SECTION C:	
	34 a) - Soil conservation is the protection/preservation/	02
	and careful management of soils to maintain	
	it's fertility; productive.	
	100 100 100	
	b) - Muchings	
	- Addition of organic manues/fertilizes;	MIX
	- Addition of organic Manual of wards	7
	- Addition of inorganiel artificial fertilizers	
	- Crop rotation;	
	- Extended fallowing / bush fallowing;	
	- Brogeochemical/nutrient Cycles; / carbon Cycle	_
	and nitrigen cycle	
	- Irrigation;	
	- Terracing;	
	- Mixed Cropping / intercropping strup cropping	
	- Contour ploughing	
	- Afforestation/reafforestation	
		- 0
	c) - Large amount of fertilizers in the lake cause rapid algal growth; (aquatic plant growth)/ algal blooms Butrophication.	
_	C) - Large amounts of aquatic Dant arowth)	1
	Tapla algae growing Coffee prairie	03
	When aquatie plants/ algae die they are	
	When aquatic plants acque the week delically	1,
	decemposed by acrobic bacteria; which decrease oxygen levels in water; causing fish to	
	oxygen levels in witter; causing tien to	
	suffocate and die?	
	- Artificial fertiliers lead to change in the	
	- Artificial fertilizers lead to change in the PH of the water OIMK @	_
	OB marks	
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	JULY/A	AUGUST:	O&A
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	d). Dollutant	BA-ect.	
		- becomposed by aerobic bacteria	
		and reduces dissolved oxygen in water	19
		· Teading to death of fish I migration	of mus.
	- Acids	- Kill fish and other organisms;	
	- Lead Mercury Cupper.	- Toxic to many aquatic organisms;	
	- Desticides/ herbicides	Toxic to aquatic organisms and Kills the	eme
	- oil;	cuts of entry of oxyges into water	
		leading to suffication of aquatic organ	JW5
	-Thermal/heat pollution	- Kills most of the aguatic organisms	•
	hot waters	, 2	
	- Domes tic mastes refuse	- cut of oxygen supply loading to death	D6MKs
	- Silt / Soil;	- reduces light peretration/affects Vision	
	- Detergents;	Any three pullulants and their effects	
	To	TAL = (15) MANKE OIMK @	
	35: (i) Mouth:	THE STATE OF THE S	
	- Has teeth; for	arthing / tearing / chewing / mastication	ng
	to increase su	rface area for enzyme action	
	and easy tw	allowing	
	- Has salwary	glands, which secrete salwa, to	DIL
	Soften and Tubr	icate food for easy swallowing;	4
	- Saliva; Contains	salivary amylase/ptyalin that	
	cafalyses the	breakdown of starch to maltose;	
	- Has muscular to	ongues to turn the food for proper	
	Mixing With isa	livail rolls food into bolus for	
	easy swallow	ing O4 M	arK
	,	0½mK	@
		WHISTH	
			<u> </u>

	WAKISSHA JOINT MOCK EXAMINATIONS JULY/AUGUST:	O&A
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****	ii) stomach:	
	- Has cardiac Sphincter; to allow food into	
-	the changib.	
-	- It's elastic; to stretch and store food for	
	d Tarrey on 0	
	- Has pylonic Sphincter muscle; to allow food retention of food for digestion;	MAX 05
	retention of fond for directions	05
-	- Has circular, longitudinal and oblique Muscles	0
	Kee to churn food into chyme by relaxation and	
-	contraction gastric Juice which (ontains
-	- Has gastric glands; that secrete mucus to	
	protect/wall from digestive enzymes;	
-	- Gastric Juice contains pepsing that catalyses	
-	the breakdown of proteins to peptides/ polypeption	05:
	- Gastric Juice also has rennin; that congulates	
	- Gastric Juice also Contains hydrochloric acid	
Acc:	that Kill bacteria in food; / provides optimum	
HOI	PH for digestion of Proteins 05 Marks	
-	pH for digestion of proteins 05 Marks	7
-		
	(ii) Dyodenum:	
	- Has secretary glands in it's wall to produce alkaling fluid; and moreous to provide suitable	1
	alkaline fluid; and more to privide suchase	_
	pH for enzymes	1
	- It's connected to the liver; that produces bile; - It's connected to the pancies that secretes	-
	- It's connected to the panties that secretes	max
	pancreaties juice; / pancreatic enzymes.	04
	- Has secretory cells; that secrete secretin;	-
	which induces the release of bile from the liver	·
	which induces the release of bile from the liver and pancreatic Juice from the pancreas	1
	- Gea O4 Man KS	
	-7- 01 MK @	70

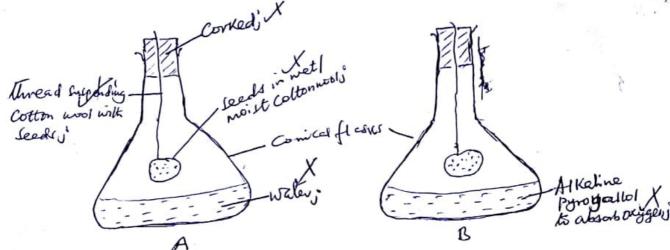
	WAKISSHA JOINT MOCK EXAMINATIONS JULY/AUGUST:	О&А
	CANDIDATE'S NAME: INDEX No	Do not
Do not write in this margin	SUBJECT: PAPER SIGNATURE	write in this margin
margin	(iv) Colon:	
	- Has myscular walk; for perystalistic	
	movements of indigested materials;	02
	- It is folded; to increase the surface area,	/
	provide enough time for absorption of water;	
	1 1 (1 (1 (1 (1 (1 (1 (1 (1 (1	
	Rojected - the warts Secrete Much subject to the sold residence Mich Secrete Much subject to the sold residence Much subject	
	TOTAL - 13 MAKE	
	20.87	
-	36 a)-sexual/reproduction is the formation of new	02
_	organisms; by fusion of (male) and (female) gamete	
	Organisms; by Justyn of many and your golden	@
	The Corner of James of	
	b) - Once the pollen grain lands on the staging, the	
	pollen grains absorbs prater; and germinates to	
-	- The pollen tube develops and grows down the	
	- the pollen tube devices and greens about the	
_	style; with the help of the tube Micheus; as the	
_	generative nucleus follows behind.	
_	- As the tube continues to grow downwards, the	
	generative nucleus divides by mitosis; to form	Max
_	Twa male nuclei (male gametes);	07
	- Directed by a Chemical the pollen tube enters	ma
	The embraiosact Through the Mily opque,	_
_	- On entering the embryosac the tip of the pollen	1.1
	tube bursks/breaks; and the pollen tube	1
_	nucleus disintegrates degenerates ;	11780
_	- The two male nucleil gametes enter the embra	god
	- One male nucleus fuses with the egy marches;	-
	To lay m (a diploid) / you le . Whishirt	
	- The other male nucleus fuses with two porces	11-
	nuclei; to form (a triploid) endogerm; 07 mo	des
	o mi	<@ ·

WAKISSHA JOINT MOCK EXAMINATIONS	1
JULY/AUGUST:	O&A
CANDIDATE'S NAME:	Do not
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c) Aim: An experiment to show that oxygen is	
necessary for germination; of mark	
2	
Materials:	
- Two Conical flanks;	
- Two Corks, max 12	
- Viable xeeds; Any 03 correct materi	alc.
- Water; Old Marks	
- Cotton wool;x	
- Alkaline pyrogalloli (pyrogallic acid in	
Sodjum hydroxide).	
Source of the state of the stat	- 1
Procedure:	
- Pour 100 cm of water in one flask VA; and	
in another conical flask 'B' 100cm of alkaline	Max 2/2.
a it I I I I I I I I I I I I I I I I I I	04 MKs
and suspend them in each flank using attaread	Max O21
- Close the mouth of each flask using a Coxik;	
Res: - Leave the set up to stand for 3 days under	
pyrogallic same conditions of light and temperature;	
Observation:	
The coods in black in account to the	
- The seeds in flank A germinated; while	of wx
seeds in flask B did not gerkninate;	
Conclusión:	
	1 1
- Oxygen is necessary for germination; 01 m	12
TOTAL - (15)	
TOTAL = (15) MARKS (GIS)	
T 1	

	WAKISSHA JOINT MOCK EXAMINATIONS JULY/AUGUST:	08:A
Do not write margin	SUBJECT: SIGNATURE SIGNATURE	fio not write to this margin
	37· a)	
	· short sightedness Long sighted ness	
	- Only near objects are only for objects are	
	focused clearly focused clearly;	
	- Images of far objects are images of near objects are	
	formed infront of retina formed behind the retina;	May
	- caused by strongland lens caused by weak lens; and	0
	and long explosed thick about This	01mxe
	- Caused by tong eyeball caused by short eyeball;	
	- A great curvature of the Kess/ little curvature of	
-	cornea is formed the cornea is formed;	
	- corrected by use of concave, corrected by use of convex!	
	diverging lens converging lens;	
	And five	. Vc
- 1	NB Mark only Compatible differences	avns
	·b)-Has reting; where images are formed;	
200	- Has scleration layer: for attackment of muscles;	
-	the chamite for above stop of light:	
-	- Has choroids for absorption of light, - Has lensy for refraction light on the retina;	
-	- Has cornege for refracting light on the retina;	Max
-	- Has agueous humour; for refracting light?	08mcs
	The Thomas King to the forking hight "	
	- Has Vitreous Kumave for refracting light;	•
	- Has optio nexue; to carry imposses to the brain	-
	- Has ciliary body/ ciliary muscles; which contract	1
	and relax to change the shape of the lens;	-
	- Has suspensory lugaments; to hold the lens in	-
	position attach to the ciliary body;	+
	- Has tear glands; to secrete tears to clear the eye	
	for cloar VISION:	
	- Has Iris: to regulate control the size ? Mis.))
	the pupil and amount of light entering the eight	
		•

	WAKISSHA JOINT MOCK EXAMINATIONS JULY/AUGUST:	O&A
		OGDZI
Do and	CANDIDATE'S NAME:INDEX No	Do not
write in this margin	PAPER: SIGNATURE	in this margin
	- Har pupil: to allow entry of light into the eye;	
	the thin transparent conjuctive: to allow of mx	D
	- Has pupil; to allow entry of light into the eye; - Has thin transparent conjuctive; to allow of mx penetration of light into the eye;	
	Any 08 cornect	,
	pairs	
	08 marks	
	c) - Astignation;	
	- Prachyonal tild cightedness.	
	- That mia: I dry eyes Any two	4
	- Presbyopial tild sightedness; - Thalmia; dry eyes Any two - squentedness; OI MK @	
	02 marks	
	TOTAL = (15) MARKS	-300
	TO THE TOTAL STATE OF THE STATE	17:
		P2 -1
	Styma - Pollen gray germinates	
	of son a pollen gran germinate	
	The contract of the contract o	
	11-2190	in/
	so lentule grower	7 6
7	down the Style;	
	moderal cocondans / Correla	
-		
•	miclei frest in the	C 460
	Egg (ell) enlors Embryo S = Cij	
	with one made pollen tube nucleut	-
	X	
	2 male muse formes	
	A witerici	1
)
		201
	11	

ALTERNATIVE FOR NO 36 (C) METHOD



NB: If drawn under requirements/materials, award the parts 12 miles