Name:	
Centre/Index No	Signature
553/1	
BIOLOGY	
(Theory)	
Paper 1	
July/Aug. 2023	
2½ hours	

ASSHU - KASESE JOINT EXAMINATIONS BOARD (AKJEB)

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 Section A and B plus any two questions in Section C.

Write the answers for section **A** in the boxes provided, and **confirm** the answers in the answer grid provided at the end of the section. Write the answers for section **B** in the spaces provided.

Answers for section **C** should be written on the answer sheets provided.

Drawings and illustrations are to be drawn neatly using a sharp HB pencil.

For Examiners' use only						
Section	Score	Examiner's initials				
A	Maria de la companya della companya	TOUR SHOW AND THE				
B: No. 31						
No. 32		The entry that Man and The				
No. 33	u u	P. Dillog Sp.				
C: No.	The Thirty of the					
No.	u) (5)	St. All I				
Total		Lock William				

Turn over

SECTION A erves as a commensal

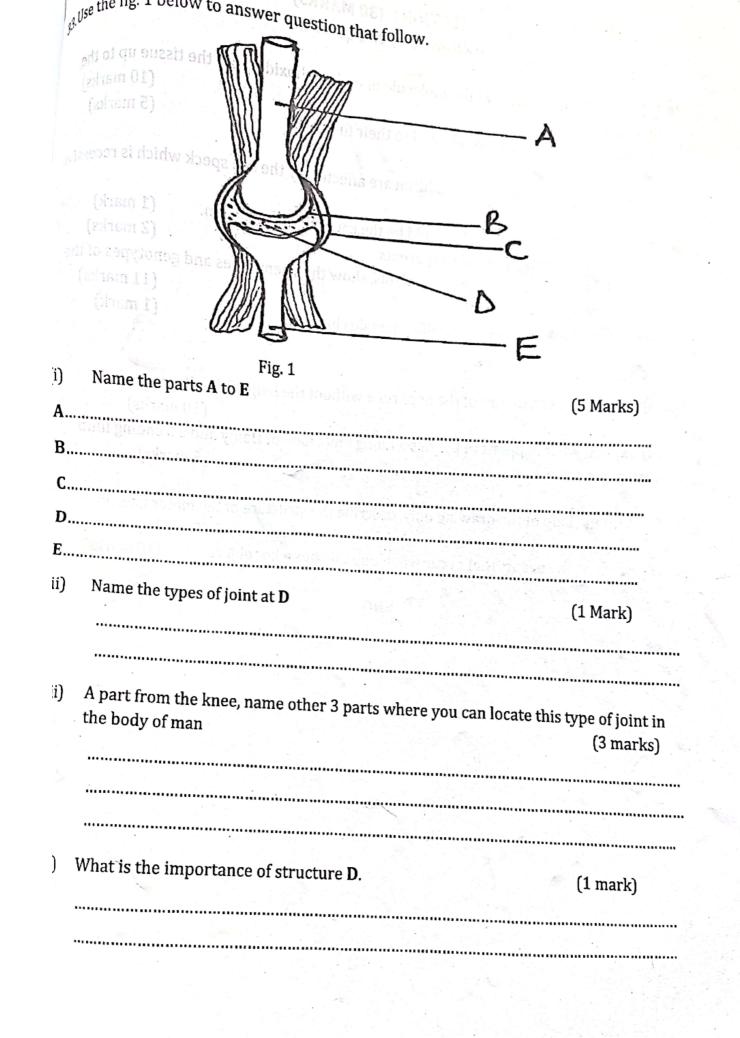
1. One of the following organisms serves as	C. Tape worm
A. Uganda kob	D. White egret
1	
B. TickWhich one of the following parts of a flo	wer is an essential part?
2 Which one of the following parts of a Ho	C. Calyx
A. Corolla	D. Sepal
B. Stigma	
3. One of the following insects in an example of the following insects in the fo	ole of lepidoptera
3. One of the following insects in all examples	C. Butterfly
A. Tsetse ily	D. Beetle
B. Cockroach	
2222222	of photosynthesis
4. What is the role of light in the process of	on
A. Split water into oxygen and nyuros	
B. Combine water and carbon dioxide	
C. Increase volume of oxygen	
D. Increase rate of photosynthesis	
T AND A CALL CALL TO A CALL CALL	ction of inculin
5. Which one of the following is not a fund	ction of mount
A. Converts glucose to glycogen and fa	a shapegen and fats
B. Accelerates conversion of glucose to	
C. Controls the level of glucose in bloo	
D. Stimulates the liver to convert gluc	ose to glycogen and rats
6 Which one of the fellowing and the	
food?	expected to consume the least amount of
	to the same and the same
A. Rat	C. Buffalo
B. Elephant	D. Cat
7 Which one of the fall	The same transfer and the same
7. Which one of the following is not a fur	action of Bacteria?
A. Ripening of bananas	C. Fermentation
B. Decomposition	D. Yoghurt formation
8. The fruit that areas	
 The fruit that opens a long one line of A. Achene 	weakness is referred to as:
B. Follicle	C. Capsule
b. Politice	D. Legume
9. Which one of the care	- Beguine EE ON
Which one of the following structures A. Capillary	o, doesn't renair when d
R. Capillary	C. Nerve
B. Blood vessel	C. MELAS
	D. Venal tubule

10 147	
10. Which one of the following stands	
10. Which one of the following stages of a physically?	n insect, doesn't exhibit life process
th Barvar Stage	
B. Egg stage	C. Pupal stage
	D. Adult stage
11. Which one of the following properties alimentary canal giving it enough time	and on the same of
alimentary canal giving it enough time A. Presence of micro villi	retards movement of food along the
A. Presence of micro villi	e for digestion?
B. Length of the fleum	
C. Narrowness of the ileum	
D. Coiling of the ileum	
o and mann	
12. Which one of the following 11.	
 Which one of the following blood gro Group A 	ups lacks antigens?
B. Group O	C. Group AB
or Group o	D. Group B
13 Which Ga	
13. Which one of the group of organisms	causes elephantiasis?
1 Intellua	C. Nematode
B. Platyhelminthes	D. Mollusca
14.40	
14. After what stage of mitosis do daugh	ter cells enter interphase:
A. Metaphase	C. Prophase
B. Anaphase	
	D. Telophase
15. The plant is characteries 11	
15. The plant is characterized by the foll	owing;
2. odd icaves	
ii. Numerous stomata	
iii. Thin leaves	
iv. Large air filled tissue	
These are characteristics of	
A Yaranhata	
A. Xerophytes	C. Halophytes
B. Hydrophytes	D. Mesophytes
	phytos
16. Which one of the following possess	2 COPPE AG A trump of the 2
A. Canalily	
•	C. Ginger
B. Onion	D. Corocasia
17. Which one of the following bones is	the longest in the human bad a
A. Tibia	
	C. Humerus
B. Radius	D. Femur

18.Why does lactic acid concentration for an and exercise has ceased?	thlete	slightly increase soon after th_{θ}
A. Because the athlete is breathing deeply		
B. Muscle are very active		
C. Muscles are still respiring anaerobically		
D. Muscles have enough oxygen		
19. Where are the sensory nerve endings located A. Hypodermis	l in th	ne skin? They are located in
B. dermis	C.	epidermis
b. derinis	D.	conified
20. Which structure of the ear sends information	fron	the ear to the brain?
A. Semicircular canals	C.	Auditory canal
B. Ear drum	D.	Auditory nerve
21. Which one of the following receives the higher		of onergy along the s
chain?	est an	nount of energy along the 100d
A. Antelope	C	Hawk
B. Bacteria		Lion
물리는 14일 - 그리지 얼마리 사람이 그리고 있다.	υ.	Lion
22. During carbon cycle, under what condition do	n Bac	teria fail to operate?
A. Alkaline condition	C	Acidic condition
B. Aerobic condition	The street	Neutral condition
22 1471 - 1		
23. Which one of the following proteins affects th	e vis	cosity of blood?
A. Albumin		Globulin
B. Fibrinogen	D.	Thrombin
24 Which part of the over continued to		
24. Which part of the eye continues to grow with A. Eye ball		트리크레 (1) 12 12 12 12 12 12 12 12 12 12 12 12 12
그는 전에 살이면 가게 하고 있다면 하는 것이 되었다면 하는 것이 없어 없는 것이 없어 없는 것이 없다면		Choroid
B. Cornea	D.	Eye's lenses
25. Under which region of the kidney is the distal	conv	voluted tubulo located?
A. Medulla		Cortex
B. Pyramid		기계 하는 그릇이 아무게 가게 하는데 그 가는 그 그 그 때문에 다른데 되었다.
b. Tyrainiu	ט.	Pelvis
26. Which one of the following is an autotroph?		
A. Black jack	C	Hen
B. Tick		점심하다 개통통하다 보이라 가게 하고 있다.
D. TICK	D.	Locust
27. Which one of the following is an example of m	ultir	ole allele?
A. Albinism		Height
B. Blood group		
b. blood group	ט.	Haemophilia

28.0ne of the following is densi									
A. Rain fall	ty d	epen	dent	factor					
B. Altitude		Poli	uent	iactor	C D				
29. Which one of the follows:	29. Which one of the following controls the flow of food from the stomach into the								
duodenum?	cont	rols t	the fl	ow of	food 6	ght			
A. Muscle ring				01	rood I	rom t	ne sto	mach int	o the
B. Cardiac sphincter							h wall		de la company
30.Where is the intermediate r A. Grey matter B. Dorsal root					D. 1	yloric	spmn	cter	
A. Grey matter	eur	on lo	cate	d in th	e spin	al cor	d2		
B. Dorsal root					C. V	Vhite i	matte:	r	
							l root		
SEC	TIO	NR	(40 X	IARK		Circia	11000		
31. Use the table below to answer q		,, ,,	(40 IV	IARK	S)				
o answer q	uest	ions	that	follow	7;				
velocity of wind (ms-1)	0	2	1	7	4 47	£	141	() ()	
Rate of transpiration (units)	0	4	8	6	8	10	12	14	
(a) Using a graph paper, plot the cu	rve	11	10	15	30	2	1	0	
(b) Describe the graph								(6 m	arks)
	· · · · · · · · · · · · · · · · · · ·	••••	•••••	•••••					
									•••••••••••••••••••••••••••••••••••••••
		•••••	••••••	••••••	•••••				
		••••							
					e de la come				
	•••••	•••••	••••••	••••••		•••••		ogazi car	
		i i e (16)							
		•••••	•••••		•••••				
			, ili. 14-50						
		•••••	•••••	•••••	•••••	•••••			
								(= 1/	a-vl-a)
하게 다른길이 내가 살길 나왔다니다. 다.			in N	The second				$(5\frac{1}{2})$	marksj
(c) Explain the shape of the graph							1		
					correct is				
						•••••			
			Hills.				0.014		
17/70 11/2									
***************************************	Sagar.								(6 1/ marks)

	other two factors that affect rate of transpiration	(5 marks)
(d) Name	other two factors that affect rate of	
	The state of the s	
	C. Predators	*****************
	the same of the sa	
	heavision in any ecosystem.	
32.Briefl (i)	ly, explain the following observation in any ecosystem. Primary producers are always more than the rest of the organisms	. (2 marks
	s.be.internediate.neuron.located to the spinol sector.	
	JOSEPH MARKET MA	
	Section B (sp. mach.)	
(ii)	Secondary consumers are less than the primary consumers.	(2 mar
1		
(iii)	Outline any five effects of increasing tertiary consumers in an ecos	ystem 5 marks)
A Pila		
To the same of the		
711		
44.4		
()	What is the role of decomposers in an ecosystem	(1 mark)



SECTION C (30 MARKS)

Answer only two questions

to a dioxide from the ti	issue up to the
34.(a) Trace the movement of the molecule of carbon dioxide from the ti	(10 marks)
alveonis	(5 marks)
(b) How are red blood cells adapted to their functions	
35. In a certain family some male children are affected by the eye speck	which is recessive
and sex linked	(1 mark)
(i) Of the two parents, who could be the cause of this problem.	(2 marks)
(ii) State the genotypes of the parents.	
(iii) Using appropriate genetic symbols, show the phenotypes and	(11 marks)
parents.	
(iv) Why doesn't this disease affect female children?	(1 mark)
36.(a) Describe the structure of the nephrone without the help of the d	lagram.
. 이 그리고 하는 그는 그는 그는 그는 그는 그는 그는 그는 그를 가지 않는 것이 없어 가장이 하는 말을 하는 것이다. 가장을 하는 것이 없는 것이다. 그렇게 하는 것은 그를 가지 않는 것이다.	0 marks)
(b) Explain what happens in the descending limb, loop of Henly and	그리고 가장이 그렇게 뭐하죠? 어떻게 되었다.
	2 이 1에서의
during excretion. (5	marks)
7.(a) With the help of the drawing only, describe the structure of the 1	motor neuron
(5)	marks)
(b) Describe the events that occur when one touches a hot object	(10 marks)
[2] [1] [2] [2] [2] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	

FND