NAME:	CENTRE/ INDEX No
SCHOOL	SIGNATURE:

553/1 BIOLOGY (Theory) PAPER 1 July/August 2023 2<sup>1</sup>/<sub>2</sub>hours



## 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 of each question.
- 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
	Section	Marks	Examiner's Initials & No.
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## SECTION B (30 MARKS)

Answer all questions in this section.

Write the letter representing the most correct answer to each question, in the box provided.

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1.	The major problem faced by land organisms with lungs is that:  A. oxygen diffuses very slowly in the air.  B. gaseous exchange involves water loss.  C. they use a lot of energy to breathe.  D. lungs are located deep in the body increasing diffusion distance.	
2.	Which one of the following trophic levels has the least amount of energy?  A. Producer B. Secondary consumer C. Primary Consumer D. Tertiary consumer	
3.	Water logged soils have A. large air spaces. B. large soil particles. C. small soil particles. D. low capillarity.	
4.	Which one of the following methods allow a mammal to lose heat?  A. Relaxaction of erector pilli muscles.  B. Contraction of arterioles.  C. Development of goose pimples.  D. Closing of jaws for a long time.	
5.	Which one of the following sets of bones form a joint allowing a person to squat?  A. Humerus, tibia and radius.  B. Femur, tibia and radius.  C. Humerus, tibula and radius.  D. Femur, tibia and fibula.	
6.	Which one of these shows a correct crop rotation?  A. Maize, millet, sorghum and beans.  B. Beans, groundnuts, cassava and pasture.  C. Maize, ground nuts, cassava and pasture.  D. Pasture, cassava, Potatoes and Yams.	
7.	Tendons join A. bone to muscle. B. muscle to Bone. C. bone to bone. D. bone to cartilage.	
8.	Blood enters the heart through vena cava and pulmonary vein, which of the following paths does the blood follow after entry?  A. Right auricle to right ventricle.  B. Left auricle to right ventricle.  C. Right auricle to left ventricle.  D. Right auricle to left auricle.	
9.	Which name is given to plants which during their first year, produce roots and shoots and store food material to be used during the second year for rapid growth?  A. Perennials  B. Biennials  C. Annuals  D. Deciduous	]

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10.	A daily meal accompanied with orange and lemon juice would prevent  A. Rickets.
	B. Anaemia.
	C. Beriberi.
	D. Scurvy.
	Which one of the following characteristics allows insects to live in dry habitats?
11.	
	A. Spiracles  B. Hairy bodies
	C. Wings
	D. Waxy bodies
12.	The scent from a flower spreads throughout a very big room. How does this scent spread?
	A. By diffusion
	B. By conduction
	C. By Osmosis
	D. By transpiration
12	Rats feed on rice and cats feed on rats. What would cause the highest increase in
13.	number of rats?
	A. Less rice and few cats.
	B. More rice and less cats.
	C. Less rice and more cats.
	D. More rice and more cats.
14.	Which one of these processes is an example of development?
17.	A. Cell absorbing water and increasing in size.
	B. A cell dividing by mitosis.
	C. A root tip cell becoming a phloem cell.
	D. A sperm cell fertilizing an egg-cell.
15.	What is the role of yeast in bread making?
	A. For aerobic respiration to produce alcohol.
	B. For aerobic respiration to produce carbon dioxide.
	C. For anaerobic respiration to produce alcohol.
	D. For anaerobic respiration to produce carbon dioxide.
16.	The drawings below show a plant shoot at the start of an experiment, and the same
	plant after three days.
	Light
	Start of experiment
	After three days  All the life process are correct about the above except.
	A. Movement B. Growth
	C. Excretion
	D. Sensitivity Turn Over
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17.	Which one of the following is the best function of a companion cell in vascular of plants?	tissues
	A. Absorb water and dissolve minerals for the plants.	
	B. Transport food materials in the plant.	
	C. Responsible for formation of lateral roots in plants.	
	D. Provide the necessary energy for transportation of food.	
18.	Which part of the eye contain blood vessels that do supply oxygen and nutrient remove metabolic wastes from the eye?  A. Choroid  B. Retina	s and
	C. Ciliary body	
	D. Cornea	
19.	In human reproduction, which of the following sequence of events is correct?  A. Menstruation → Ovulation → implantation → fertilization  B. Menstruation → Ovulation → fertilization → implantation  C. Ovulation → Menstruation → fertilization → implantation  D. Ovulation → Menstruation → implantation → fertilization	
20.	Which of these two characteristics show discontinuous variation?  A. Height and weight.  B. Eye color and Height.	
	C. Tongue rolling and eye color. D. Blood groups and height.	
21.	Which one of the following structures of a neuron connect with other neurons?  A. Cell body	
	B. Axoplasm	
	C. Long distance	
	D. Dendrites	
22.	The structures in the human male reproductive system that are responsible for se of the alkaline milky fluid that neutralizes acidity of the vagina is the A. Cowper's gland  B. Epididymis  C. Prostate gland  D. Testis	ecretion
23.	The following are the similarities between mitosis and meiosis EXCEPT	
	A. Both lead to evolution.	-
	B. Both use energy from ATP.	
	C. Both involve formation of spindle fibers.	party and
	D. Both involve formation of daughter cells.	
4.	The following are birth control methods	
	(i) Vasectomy (ii) Tubal ligation	
	(iii) Intra uterine device	
	(iv) Spermicide	
	(iv) opermede	

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31.	by a plant was studied and the following results were obtained.
21	All answers must be written in the spaces provided.  In an experiment the effect of oxygen concentration on the absorption of sodium ions
	All answers must be written in the spaces provided
	SECTION B
	SECTION D
	D. Castor oil
	C. Rice
	B. Maize
	A. Beans
30.	Which one of the four seeds would provide greatest quality and quantity of nutrients for the growth of a fetus in an expectant mother?
	D. lower the atmosphere.
	C. conserve energy.
	B. conserve water.
29.	A. stop gaseous exchange.
29.	The opening of stomata during night and closure during day is an attempt to
	D. Urea
	C. Carbon dioxide
	B. Glucose
	A. Amino acid
28.	Which of the following substance is present in lower concentration in renal artery than renal vein?
	D. 3:1
	B. 4:1 C. 1:12
	A. 2:1
27.	A cube which measures 2 cm has an area of 24 cm <sup>2</sup> , its surface area to volume ratio is:-
	D. Seeing a burglar.
	C. Eating a carrot.
	B. Smelling a flower scent.
	A. Hearing a song.
	produce a hormone?
26.	Which one of the following conditions would cause the adrenal gland of man to
	C. Vasodilation, increase in sweating, relaxation of erector pili muscles.  D. Vasodilation, increase in sweating, shivering.
	B. Vasodilation, increase in sweating, shivering.
	A. Vasodilation, increase in sweating, contraction of erector pili muscles.
25.	Which of the following activities can take place together during temperature regulation.
	D. (iii) and (iv)
	C. (ii) and (iv)
	B. (i) and (ii)
	A. (i) and (iii)
	Which of the methods are irreversible once applied?

Concentration of sodium ions (arbitrary units)	8	30	50	61	65	65
Concentration of oxygen in culture solution (%)						

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Describe the shape of the graph you have plotted.  Explain the effect of oxygen concentrations on the absorption of sodium ions by the plant.  (07 mark)  (07 mark)	17-		41	1		41.		10 -	lat a	svit	able	orar	h						(0	6 n	ar
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e)	Name the physiological proce	ss that was responsible for the absorption of sodium
	ions by the plant.	(01 mark)

f)	Name <b>two</b> areas in the humar	body where the physiological process named above
	is applied.	(02 marks)

32. A class of students carried out an experiment to investigate the percentage of air in three types of soils. The class results are summarized in the table below. Study the table carefully and answer the questions that follow.

Type of soil	Percentage of air by volume
Soil A	20
Soil B	06
Soil C	13

- a) If all the three soil types were mixed in equal amounts, without losing any of their contents, what would be the average percentage of air of the soils? Show your working in the space below.
- b) Using the information in the table above, identify the soil types giving a reason in each case. (06 marks)

Soil type A\_\_

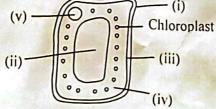
Reason

Soil type B \_\_ Reason

Soil type C

Reason

- c) Giving a reason, state which of the soil types A, B and C drains fastest? (01 mark)
- d) With a reason state the types of soil which is most suitable for rice growing?
  (02 marks)
- 33. The figure below shows a modified plant cell. Study it and answer the questions that follow.



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Na	me the parts labeled (i) to (iv)	(02 marks)
(i)		
(ii		
(ii	· ————————————————————————————————————	
(iv Na	me the layer in the leaf from which the cell could be obtained.	(01 mark
	ate how <b>two</b> observable features on the above structure adapt a leaf otosynthesis?	f for (04 marks)
	л	
	hy is it advisable for an athlete to double his carbohydrate intake tw fore the race?	vo weeks (03 marks)
	SECTION C (30 marks)	
	Answer any two questions from this section.  these questions must be written in the answer booklets/sheets pro	vided.
	sociba how the structure of the respiratory system in man is suited	C
	escribe how the structure of the respiratory system in man is suited	for (06 marks)
O	ovement of air along it.	(06 marks)
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(i)	ovement of air along it.  It in the mechanism of ventilation in man.  Explain the difference between Hypogeal and Epigeal germinati	(06 marks) (09 marks) on.
(ii	explain the difference between Hypogeal and Epigeal germination.  State the conditions necessary for germination to take place.	(06 marks) (09 marks) on. (04 marks) (03 marks)
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(ii) Ex Wi Ex (i) (ii) Ho Ex Wi In wr sha	Explain the difference between Hypogeal and Epigeal germination.  Explain the difference between Hypogeal and Epigeal germination.  State the conditions necessary for germination to take place. plain the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination of a maize seed. In the series of events that lead to germination to take place. The series of events that lead to germination to take place. The series of events that lead to germination to take place. The series of events that lead to germination to take place. The series of events that lead to germination to take place. The series of events that lead to germination to take place. The series of events that lead to germination to take place. The series of events that lead to germination to take place. The series of events that lead to germination to take place. The series of events that lead to germinati	(06 marks) (09 marks) on. (04 marks) (03 marks) (08 marks) (01 mark) (02 marks) (02 marks) (05 marks) (05 marks) (01 mark) with a round seed

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