

KOLFRAM EDUCATIONAL SERVICES KAMPALA

MID TERM ONE EXAMINATIONS 2023

PRIMARY SIX

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

CANDIDATE'S NAME: _____

INDEX NUMBER

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SIGNATURE: _____

DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO

Read and follow these instructions carefully:

1. The paper has **two** sections: A and B.
2. Section A has **40** questions (40 marks)
3. Section B has **15** questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink.
6. Diagrams should be drawn in pencil.
7. Unnecessary crossing of work may lead to loss of marks.
8. Any handwriting that cannot be easily read may lead to loss of marks.
9. Do not fill anything in the boxes indicated; For Examiner's use only.

FOR EXAMINERS USE ONLY

QN. NUMBER	MARKS	EXAMINER'S INITIAL
1-10		
11-20		
21-30		
31-40		
41-50		
51		
52		
53		
54		
55		
TOTAL		

COMMENT TO THE CANDIDATE

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Turn over

SECTION A

1. Name the part of the ear that maintains body posture.

2. What is the major role of leaves on plants?

3. Give **one** use of antennae to an insect.

4. How does heat travel in a vacuum?

5. Why does a millet farmer need sunshine?

6. In what state of matter is water vapour?

7. Which element of PHC caters for casualties?

8. What is the gestation period of a sow?

9. How can a family protect children from nutritional deficiency diseases?

10. Calculate the mass of an object whose volume is 15cc and density of 2g/cc

11. Why is it good to chew food properly before swallowing it?

12. Name **one** example of birds with such a beak.

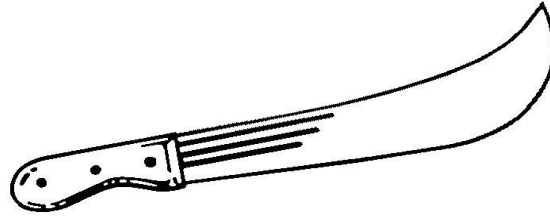


13. Explain why farmers are encouraged to plant leguminous crops during crop rotation.

14. Which part of air is needed for burning to take place?

-
15. Suggest one excuse people in your village give for drinking alcohol.
-
-
16. Name one exotic breed of goats kept for milk production.
-
-
17. What do you understand by the term "germination"?
-
-
18. What eye disease do the Chlamydia germs spread?
-
-
19. Apart from weaning babies, give one other example of vulnerable people.
-
-
20. Why is the government of Uganda seriously giving its people free mosquito nets through VHT's?
-
-
21. By what process is food broken down into simple soluble substances which can be absorbed into the body?
-
-
22. Why is melting of ice to water considered as a physical change?
-
-
23. Give a reason why roughages should be included in our diet.
-
-
24. Name the type of soil used for modelling.
-
-
25. Why does a piece of paper float on water?
-
-
26. Give a reason why farmers debeak their birds.
-
-
27. Give **one** role of the worker bee in a hive.
-
-
28. Why do earthworms come out of the ground immediately after it has rained?
-
-

29. Of what importance is the garden tool drawn below?



30. Give one example of an egg laying mammal.

31. How does yeast reproduce?

32. Give the importance of blood plasma in the body.

33. How does a turtle protect itself?

34. Suggest **one** advantage of mulching.

35. Suggest one importance of transpiration to plants.

36. What is immunity?

37. Name any **one** dangerous chemical found in tobacco.

38. Write **one** characteristic of essential drugs.

39. Why do objects thrown in air come back on the ground.

40. Give the importance of the garden tool shown below.

SECTION B

(Questions in this section carry 4 marks each)

41. (a) What is First Aid?

- (b) Give two qualities of a good First Aider.

(i) _____

(ii) _____

- (c) Who is a casualty?

42. **Study the animals given in list A and those in list B and use them to answer questions that follow**

A

fish

bird

frog

B

man

whale

bat

- (a) To what class of vertebrates do animals in list **B** belong?

- (b) How are animals in list **A** similar in terms of reproduction?

- (c) Give one similarity between animals in list **A** and list **B**.

- (d) How is a toad different from a fish in the way they breathe?

43. (a) What are weeds?

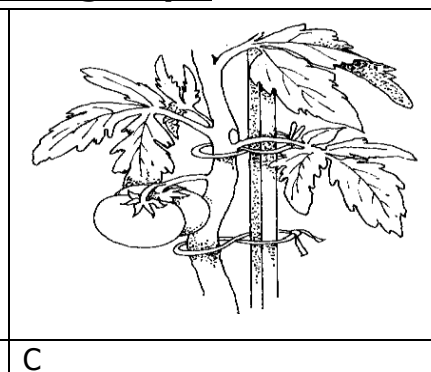
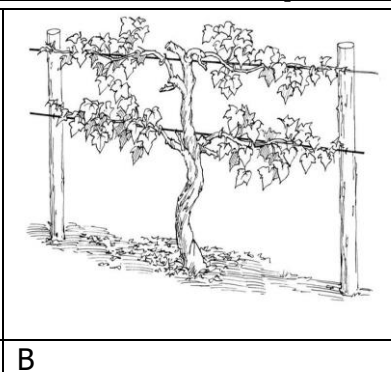
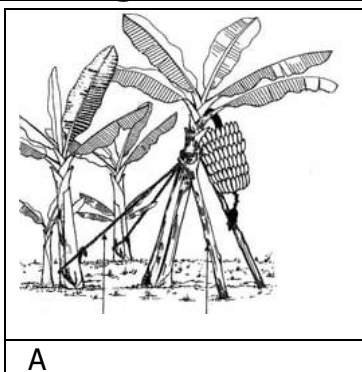
- (b) Give any **two** disadvantages of weeds in a garden.

(i) _____

(ii) _____

- (c) Write down **one** way of controlling weeds in the garden.

44. **The diagram below shows different ways of staking crops.**



- (a) Name the plant staked using the method marked;
 (i) **B** _____
 (ii) **C** _____
- (b) What name is given to the method of staking marked B.

- (c) State any **one** importance of staking to plants.

45. (a) What is temperature?

- (b) What is the normal body temperature of a person?

- (c) Change 40°C to Fahrenheit scale. (2 marks)

46. Match the diseases to their crops correctly.

- | | | |
|-------|----------------|-------------|
| (i) | Panama | tomatoes |
| (ii) | Tomato blight | cassava |
| (iii) | Cassava mosaic | ground nuts |
| (iv) | Rosette | bananas |
- (i) Panama _____
- (ii) Tomato blight _____
- (iii) Cassava mosaic _____
- (iv) Rosette _____

47. What are aquatic animals?

- (b) Mention any **two** examples of aquatic animals.
 (i) _____
 (ii) _____
- (c) Mention **one** common place where aquatic animals live.

48. (a) Give **two** common characteristics between reptiles and birds.
 (i) _____
 (ii) _____
- (b) How do the following protect themselves?
 (i) Tortoise _____

(ii) Millipede

49. (a) What is an accident?

(b) Write down any **one** cause of road accidents.

(c) State any **two** reasons for giving First Aid.

(i)

(ii)

50 Use the table below to answer questions that follow.

List A	List B	List C	List D
Kite	Monkey	Tortoise	Housefly
Ostrich	Rat	Snake	Cockroach
Vulture	Man	Lizard	Rickets
Hen	Kangaroo	Gecko	Moths

(a) How is the gecko in group **C** able to walk upside down on the ceiling?

(b) What type of fertilization do animals in list **B** undergo?

(c) Why are animals in list **C** said to be cold blooded?

(d) To which group of vertebrates do animals in list **A** belong?

51. (a) Explain the following terms briefly.

(i) Active smoking

(ii) Passive smoking

(b) Which body organ is greatly damaged by smoking?

(c) State the name given to one of the chemical substances found in tobacco.

52. (a) State **one** role of a health prefect in your school.

(b) Identify **one** activity done during a health parade.

(c) Give **one** reason why school children bathe regularly.

(d) Why do we use soap when washing clothes?

53. **The diagram below shows a sanitation area . Use it to answer questions that follow.**



a) Name the sanitation area shown above.

b) Give **one** importance of the sanitation area mentioned in (a) above.

c) Mention **one** common health practice commonly done after visiting the latrines.

d) Give any **one** material used for washing the hands.

54. (a) Write STIs in full.

(b) Mention one example of STIs.

(c) Why are STIs said to be communicable diseases?

(d) Which STI causes blindness in babies?

55. **Match the blood vessels in list A to their functions in list B.**

A

(i) Veins

(ii) Arteries

(iii) Pulmonary artery

(iv) Pulmonary vein

B

- carry oxygenated blood from the heart to all body parts.

- carry blood away from the heart.

- carry blood towards the heart.

- carry de-oxygenated blood from the heart to the lungs.

(i) Veins _____

(ii) Arteries _____

(iii) Pulmonary artery _____

(iv) Pulmonary vein _____

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P.6 Science mid Term I 2023

1. Semi-circular canal
2. To manufacture starch
3. Feeling/Sensing danger/temperature changes/communication
4. By means of radiation
5. To be able to dry the harvested millet.
6. Gas/Gaseous state
7. First Aid
8. 3 months 3 weeks 3 days
9. By providing a balanced diet regularly.
10. Mass= density x volume
 $= 2\text{g/cc} \times 15\text{cc}$
 $= 30\text{g}$
11. For easy swallowing/It eases digestion/It reduces risks of foreign bodies in the throat.
12. Eagle/Kite/Secretary bird/Owl/Hawk/Vultures/ Crow
13. In order to fix nitrogen into the soil/To improve soil fertility.
14. Oxygen
15. Boredom/to relax and pass time/To socialize with colleagues/to forget their problems/To fit among their peers/To celebrate achievements.
16. Toggenburg/saanen
17. Germination is the process by which a seed develops into a seedling.
18. Trachoma
19. Expectant mothers/Breast feeding mothers/The sick/convalescents/The elderly/Invalids
20. To reduce cases of malaria/To reduce mortality due to malaria/To guard people against mosquito bites and malaria.
21. Digestion
22. No new substance is formed in melting of ice to water.
23. To prevent constipation/They allow easy digestion of food.
24. ...because a piece of paper is less dense than water.
25. Clay soil
26. To prevent cannibalism.
27. It protects the hive/Defends the hive/Builds the honey comb/Collects nectar for honey/Repairing the hive.
28. To get more oxygen
29. By means of conduction.
30. Duck-billed platypus
31. By means of cell budding
32. To transport digested food antibodies, hormones etc
33. By withdrawing its tail, head and legs into its hard shell.
34. Mulching is cheap/mulches are easily accessed/Mulches are affordable.
35. Transpiration helps a plant to cool down during hot weather.
36. The ability of the body to resist/fight germs that enter the body.
37. Tar/Nicotine
38. They are properly packed/They are available/They have clear dosage/They have a clear lifespan.
39. Due to gravitational force/pull.
40. Cutting down cereals/Cutting tall grass.
41. –
 - (a) First Aid is the first help/immediate help given to a casualty before being taken to the hospital.
 - (b) Kind/sympathetic/quick/empathetic
 - (c) A person who has got an accident
42. –
 - (a) Mammals
 - (b) They all lay eggs as a way of reproduction.
 - (c) All animals in lists A and B are vertebrates.
 - (d) A toad breathes through lungs and moist skin whereas a fish uses gills to breath.
43. –
 - (a) Weeds are the unwanted plants in a garden.
 - (b) Weeds compete for nutrients with the wanted crops which leads to poor yields/Weeds act as home for pests.
 - (c) Mulching/spraying herbicides/digging out the weeds/uprooting the weeds and burying them.
44. –
 - (a) Passion fruits, pumpkin, watermelons
 - (ii) Tomatoes
 - (b) Trellising
 - (c) Staking protect fruits from damage from the ground
Staking give support to the plants
45. –

- (a) Temperature is the degree of hotness or coldness of matter.
- (b) 37°C (98.6°F)
- (c) $^{\circ}\text{F} = \frac{9}{5} + 32$
- $$= \frac{9}{5} \times 40 + 32$$
- $$= 72 + 32$$
- $$= 104^{\circ}\text{F}$$
46. –
- (i) Bananas
- (ii) Tomatoes
- (iii) Cassava
- (iv) Ground nuts
47. –
- (a) Aquatic animals are animals which live on/ in water.
- (b) Frog, some snakes, fish crocodiles, hippos,
- (c) In/ on water
48. –
- (a) Both reptiles and birds lay eggs/Have scales/Both undergo internal fertilization/Both reptiles and birds are vertebrates.
- (b) (i) Withdrawing legs and head into its hard shell.
- (ii) By coiling up/curling
49. –
- (a) An accident is a sudden happening that causes harm to the body.
- (b) Overloading vehicles/Using vehicles in dangerous mechanical condition/Over speeding/Driving under the influence of alcohol.
- (c) To save life/To stop bleeding/To reduce pain.
50. –
- (a) The gecko uses its suction pads.
- (b) Internal fertilization.
- (c) ...because their body temperature changes according to that of the surrounding environment.
- (d) They belong to birds.
51. –
- (a) (i) Active smoking is the inhaling of tobacco smoke directly from a pipe or cigarette.
- (ii) The inhaling of tobacco smoke that is exhaled by an active smoke.
- (b) The lungs
- (c) Tar/Nicotin
52. –
- (a) A health prefect organizes health parades.
- (b) Checking the level of personal hygiene among children.
- (c) To prevent bad smell.
- (d) The chemicals in the soap make it easy to remove dirt/So that we can kill the germs in the clothes.
53. –
- (a)because there was oxygen in jar A.
- (b) ...because oxygen was used up in jar B.
- (c) Germination/rusting
- (d) Water in jar B rose to occupy the space left by the used up air.
54. –
- (a) Sexually Transmitted Infection.
- (b) HIV/AIDS/Gonorrhea/Syphilis/Candida/ etc
- (c) ..because STIs are spread from one infected person to a healthy person.
- (d) Syphilis
55. –
- (i) Veins – carry blood towards the heart.
- (ii) Arteries – carry blood away from the heart.
- (iii) Pulmonary artery – carry de-oxygenated blood from the heart to the lungs.
- (iv) Pulmonary vein – carry oxygenated blood from the heart to all body parts.