



KAMULI DISTRICT ACADEMIC COMMITTEE
PRE REGISTRATION EXAMINATION

2023

INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

| EMIS No. | Personal No. |
|----------|--------------|
| | |

Candidate's Name:

Candidate's Signature:

School Name:

Read the following instructions carefully:

1. This paper has two sections **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **8 printed pages**.
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. All answers **must** be written using a **blue or black** ball point pen or ink. Any work written in pencil will **not** be marked.
4. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
5. Do not fill anything in the boxes indicated: "**FOR EXAMINERS' USE ONLY**".

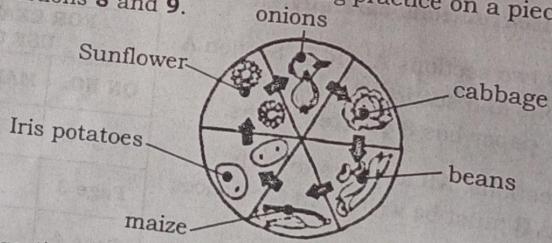
| FOR EXAMINERS' USE ONLY | | |
|----------------------------|-------|--------------|
| QN NO. | MARKS | EXR'S NO. |
| Page 2 | | |
| Page 3 | | |
| Page 4 | | |
| Page 5 | | |
| Page 6 | | |
| Page 7 | | |
| Page 8 | | |
| TOTAL | | |

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Mention the structures that help a honey bee breath.
.....
2. Give any one example of a table bird.
.....
3. How useful is a dustbin to a Primary 7 pupil?
.....
4. Why is diarrhoea said to be a sanitary disease?
.....
5. Mention the sense organ for vision.
.....
6. Give one example of a reptile.
.....
7. Define dehydration.
.....

The diagram below shows a crop growing practice on a piece of land. Use it to answer questions 8 and 9.



8. Name the practice shown above.
.....
9. State the advantage of including legumes in the above practice.
.....
10. Give one domestic use of a broom.
.....
11. Write down one example of a communicable disease.
.....

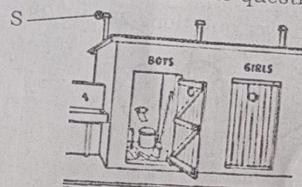
Why does a piece of paper float on water?

How useful are shoes to a school boy?

Why is loam soil said to be the best for crop growth?

15. Why are proteins first digested in the stomach?

Below is a VIP latrine. Use it to answer questions 16 and 17.



16. Give the importance of part **S** on the VIP latrine.

17. Mention the main use of a latrine at home.

18. Name the part of a leaf which carries out transpiration.

19. How dangerous is malaria to the circulatory system?

20. Mention the importance of a vacuum flask to the cook.

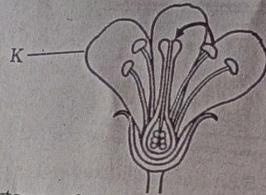
21. Give any **one** characteristic shared by all mammals.

22. How are sperm cells similar to pollen grains in plants?

23. Give any **one** device used to measure human body temperature.

24. Mention the last set of teeth in humans.
.....
25. Why do farmers keep merino sheep?
.....
26. How are fish able to survive in water?
.....
27. Mention the food value obtained from eating fresh fruits.
.....

Use the diagram below to answer questions 28 and 29.



28. Mention the importance of part K.
.....
29. Name the type of pollination shown on the diagram above.
.....
30. State the element of Primary Health Care observed in prevention of measles.
.....
31. In which way are stem tubers propagated?
.....
32. How useful is the BCG vaccine in the body?
.....
33. State the importance of a rake to a gardener.
.....
34. Mention the rabbit disease which affects poultry.
.....
35. Give the importance of a sunbird to a sunflower farmer.
.....

.....
ite down **one** example of solitary insects.

.....
Why is a maize grain referred to as a fruit?

.....
Mention any **one** item needed to prepare alcohol using distillation method.

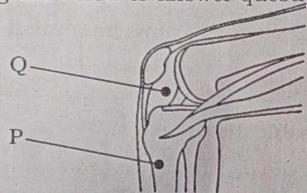
39. What type of leaf venation does a maize leaf have?
.....

40. Mention any **one** use of bacteria in our daily lives.
.....

SECTION B: 60 MARKS

Questions **41** to **55** carry four marks each

41. Use the diagram below to answer questions that follow.



(a) Identify the type of joint shown above.
.....

(b) State the function of part **Q** in a joint.
.....

(c) Name bone marked **P**.
.....

(d) Mention the disorder which is common to bones in a joint.
.....

42. (a) Define the terms below as used in sound energy.
(i) volume
.....

(ii) pitch
.....

(b) Give any **two** uses of sound to people.

(i).....

(ii).....

43. (a) Mention the **two** living components of blood.

(i).....

(ii).....

(b) Give any **two** types of blood vessels.

(i).....

(ii).....

44. (a) State any **two** reasons people give for smoking.

(i).....

(ii).....

(b) Name any **one** dangerous chemical found in tobacco smoke.

.....
(c) Mention any **one** disease caused by excessive smoking.

.....
45. (a) Why is immunisation a free service in Uganda?

.....
(b) State any **one** reason why the government aims immunising children of five years and below.

.....
(c) Give **two** examples of immunisable diseases.

(i)..... (ii).....

46. Complete the table below about vectors and diseases they spread.

| Vector | Disease |
|----------------|--------------|
| Tse tse fly | |
| | Rabies |
| Tiger mosquito | |
| | Bilharziasis |

47. Use the diagram below to answer the questions that follow.



(a) State the importance of the substance produced at **A** to the mushroom.

does a mushroom benefit from structures marked **B**?

Give any **two** uses of a mushroom to people.

a) State the function of a flower to a plant.

.....

(b) Which part on a plant enables it to increase in height?

(c) Apart from providing food, give any other **two** importance of plants to

people.

49. (a) Why is dew formed at night?

(b) Mention the form of energy which;

(i) makes dew evaporate.

(ii) enables photosynthesis.

(c) Give any **one** raw material of photosynthesis.

50. Use the diagram below right to answer questions that follow.

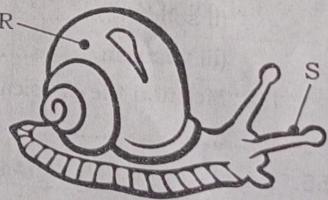
(a) Give the importance of part R to the poultry keepers.

(b) How useful is part S to the organism?

(c) Why is the organism grouped in invertab.

(d) Mention any other organism that belongs to the same group of invertebrates as the above.

51. (a) Apart from babies, mention any **two** examples of vulnerable people.
(i) (ii)



- (b) State what would happen to vulnerable people if not given special care.
- (c) State the difference between an invalid and a convalescent.

52. (a) Write **ORS** in full.

(b) Mention the component of ORS responsible for restoring energy in the body.

(c) Give examples of the following in ORS:

- (i) a solute
(ii) a solvent

53. Below is a foot of a bird, use it to answer the questions that follow.



(a) Mention the group of birds with such a foot.

.....

(b) Why does the foot have sharp curved claws?

.....

(c) Give any **two** examples of birds with such a foot.

(i)..... (ii).....

54. (a) How does heat travel through the following media:

(i) solids? (iii) liquids?

(ii) vacuum?

(b) Mention the physical process that changes ice to water.

.....

55. Match the reproductive processes below with their places of occurrences.

Implantation oviduct

Conception ovary

Ovulation uterus walls

Fertilisation uterus

Implantation

Conception

Ovulation

Fertilisation