



ANKOLE DIOCESE EXAMINATIONS SECRETARIAT

PRE-PLE EXAMINATION
2024

INTEGRATED SCIENCE

TIME ALLOWED: 2 HOURS 15 MINUTES

INDEX NO:

E M I S NO					Personal No.		

Candidate's Name:.....

Signature:.....

School Name:.....

EMIS No.....

Archdeaconry.....

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.
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-pen or ink. Any work written in pencil other than graphs and diagrams will **not** be marked.
4. Unnecessary alteration of work may lead to **loss** of marks.
5. Any handwriting that cannot be easily read may lead to **loss** of marks.
6. **Do not** fill anything in the box indicated "**for Examiner's use only**" and those inside the question paper.

FOR EXAMINER'S USE ONLY		
QN NO.	MARK	Examiner's Sign
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

TURN OVER

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SECTION A: 40 MARKS

1. Name any **one** domestic animal that provides milk to human beings.

.....

2. State **one** process in plants which is important during rain formation.

.....

3. Which form of energy must be present for a shadow to be formed

.....

4. How is the black jack adapted to its mode of seed dispersal ?

.....

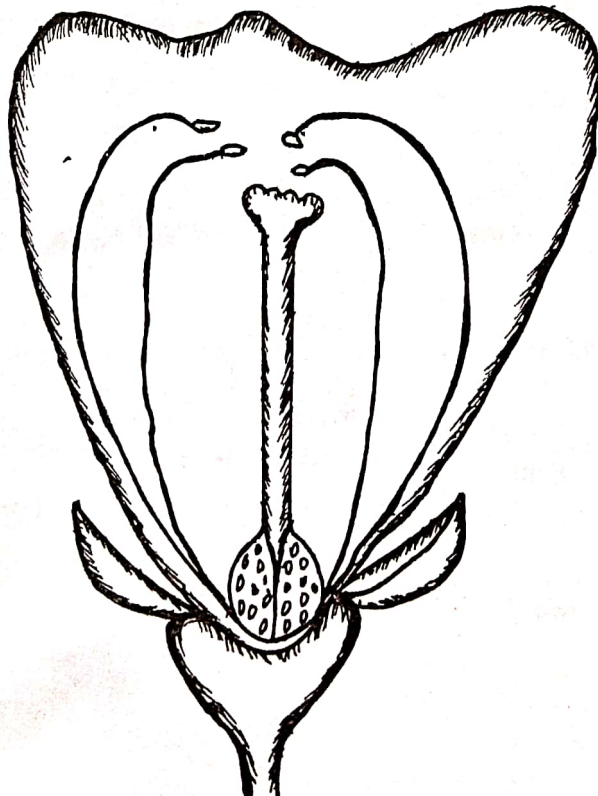
5. Name the part of the human ear that helps in balancing the body.

.....

6. Which part of blood produces antibodies ?

.....

The diagram below is about pollination. Study and use it to answer the question that follow.



7. Name the type of pollination that is likely to occur in the diagram above.

.....

8. Which role is played by the kidneys in the human body ?

.....

9. Name the element of PHC that is promoted through fencing water sources.

.....

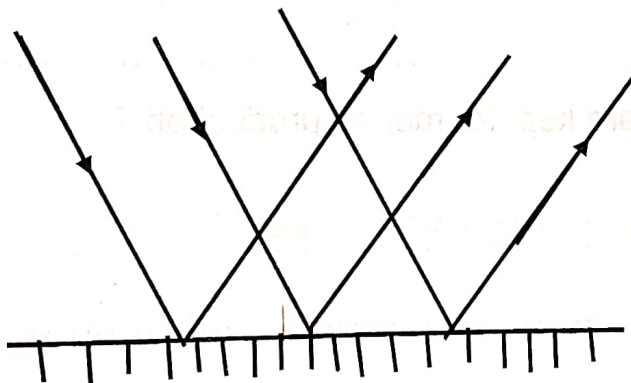
10. What causes truancy in school ?

.....

11. Why are crop growing farmers encouraged to keep poultry.

.....

The diagram below shows reflection of light. Use it to answer question 12.



12. Name the type of reflection shown in the diagram above.

.....

13. Which sexually transmitted disease causes blindness in newly born babies ?

.....

Turn over

14. How do crops benefit from trees in agroforestry ?

.....

.....

15. State **one** way in which married couples can avoid acquiring HIV/AIDS among themselves.

.....

16. Which type of electricity is produced by burning fossil fuels ?

.....

17. How are rings of cartilage useful in the trachea of man ?

.....

18. In which way is a smoker important to a person harvesting honey ?

.....

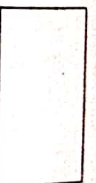
19. Why is a nut cracker said to be a second class lever ?

.....

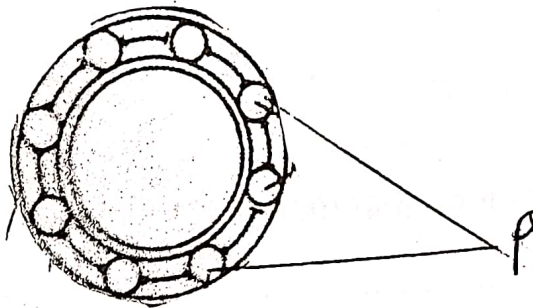
20. Which exotic breed of goats are kept for mohair production ?

.....

.....



The diagram below is a moving part of a machine. Use it to answer questions 21 and 22.



21. What name is given to structures marked P on the diagram above ?

.....

22. State the importance of the structures in the moving parts of the machine.

.....

23. A stone of mass 40g was immersed in water. It displaced water equal to 20 cc. What is the volume of the stone ?

.....

.....

24. Why do UMEME workers wear gloves when installing electricity ?

.....

.....

25. Name any **one** musical instrument that produce sound by vibration of strings when plucked.

.....

Turn over

26. In which way is the reproduction in groundnuts different from that in liverworts ?

.....

.....

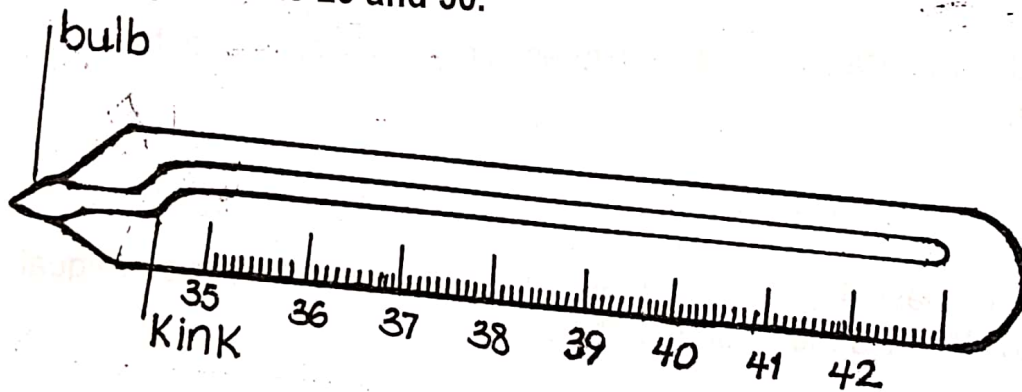
27. Name the class of food that makes our bones and teeth stronger.

.....

28. Identify **one** resource in the environment that can be replaced through rain cycle.

.....

The diagram below shows one of the types of thermometers. Use it to answer questions 29 and 30.



29. Identify the type of thermometer shown above.

.....

30. Give a reason to support your answer in No.(29) above.

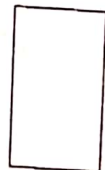
.....

.....

31. Give the difference between near drowning and drowning.

.....

.....



32. How is a fuse adapted to its function ?
.....
.....
33. To which group of simple machines does a needle belong ?
.....
.....
34. State **one** reason why fuel saving stoves are made of clay.
.....
.....
35. What condition makes an object to sink in water ?
.....
.....
36. Which property of air enables a school nurse to give an injection to a patient ?
.....
.....
37. Give the use of cotton wool to a first aider.
.....
.....
38. Why doesn't a male anopheles mosquito spread malaria ?
.....
.....
.....
39. Name **one** cold blooded vertebrate that protects itself by hiding in its hard shell.
.....
.....
40. Mention **one** use of litter in a deep litter house.
.....
.....

SECTION B: 60 MARKS.

41.a) Why should babies be given breast milk ?

.....

.....

b) Mention **two** conditions when a mother may fail to breast feed her baby.

i).....

ii)

c) Give **one** reason why breast milk is not recommended for grown up children.

.....

.....

42.a) Which germ causes candidiasis in human beings ?

.....

b) State any **one** way of controlling candidiasis in human beings.

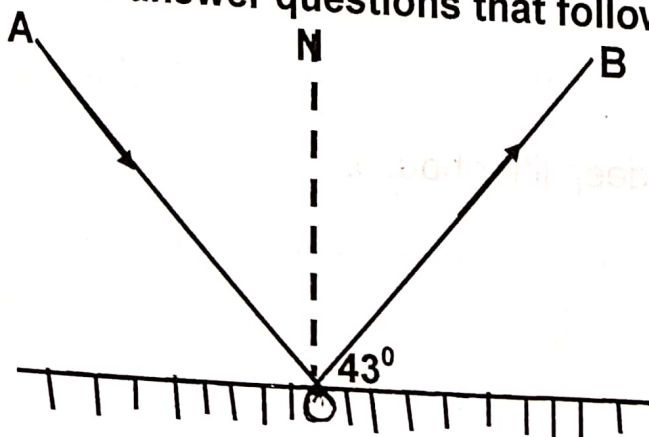
.....

c) What are non infectious diseases ?

.....

.....

The diagram below shows reflection of light. Study it and use it to answer questions that follow



43. Name a ray of light marked **AO** and **OB**.

i) **AO**

ii) **OB**

b) Calculate the angle of incidence (**i**) in the diagram above. (2 mks)



44.a) A part from broadcasting, name any other method of planting seeds.

.....

b) Give **one** advantage of broadcasting method of planting seeds.

.....

c) List down **two** conditions that support germination.

i).....

ii).....

45.a) State **one** way in which friction is a useful force.

.....

b) Suggest **one** way of increasing friction.

.....

c) In which **two** ways can friction be reduced in a wheelbarrow ?

i)

ii)

Turn over

46.a) Mention any **two** dairy breeds of goats kept in Uganda.

i)

ii).....

b) Why do most farmers prefer keeping goats to cattle ?

.....

.....

c) Mention any **one** disease that affects goats.

i)

.....

ii)

.....

47.a) Name the enzyme that acts on the following food values;

i) Cooked starch in mouth:

.....

ii) Proteins in the stomach:

.....

b) State **two** characteristics of enzymes.

i)

ii)

48. Match parts in A with their functions in B

List A	List B
Part	Use
i) Stigma	Protects a flower in a bud stage
ii) Anther	Receives pollen grains
iii) Petal	Produces pollen grains
iv) Sepal	Attracts insect pollinators

- a) Stigma
- b) Anther:
- c) Petal:
- d) Sepal

Below is a food chain. Use it to answer the questions that follow.

Maize plant → Grasshoppers → Birds → Bacteria

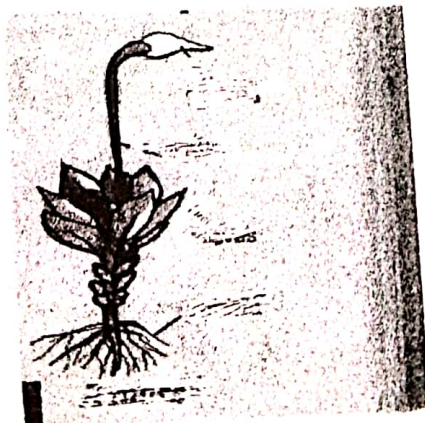
49. a) Which of the above components of the food chain act as;

- i) Decomposer
- ii) Secondary consumer
- iii) Producers:

b) Suggest what would happen to the birds in the food chain above as grasshoppers reduce in number

.....

50. The diagram below is of a non-flowering plant. Use it to answer the question that follow.



Turnover

a) Identify the non flowering plant shown above.

.....

b) By what means does the above plant reproduce ?

.....

c) Give **two** other plants that belong to the same group with the one in number **(a)** above.

i)

ii)

51. a) Give **one** example of a Health Centre.

.....

b) Give any **two** health services that are provided to people at a health centre.

i)

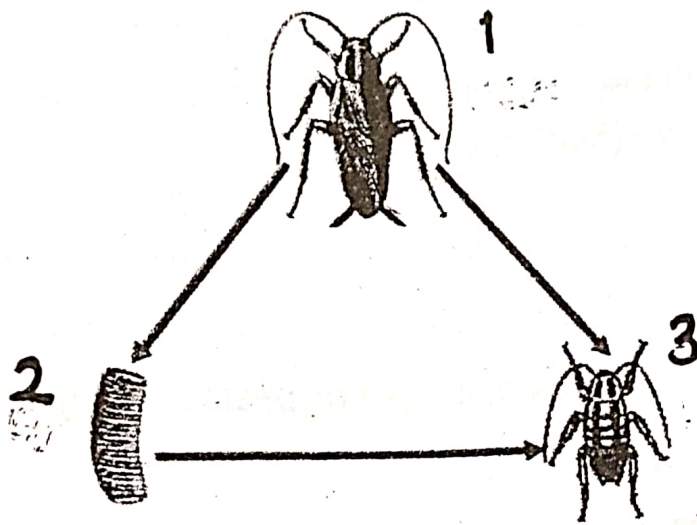
ii)

c) Identify any **one** condition that may require a person to visit a health centre.

.....

.....

52. The diagram below shows a life cycle of an insect. Study it and use it to answer question no. 52.



- a) What type of life cycle is shown in the diagram above ?

.....

- b) Name the stage shown by figure 3 in the diagram above.

.....

- c) At what stage does the above organism cause harm to human health?

.....

- d) What problem does the above insect cause to the human health ?

.....

- 53.a) How are the following organs in the human body protected from harm?

i) The brain:.....

ii) The spinal cord:.....

iii) The lungs:.....

- b) Give an example of long bones in the human body.

.....

Turn over

54.a) What name is given to a group of crops which are grown and harvested within a year ?

.....
b) Give **two** examples of crops that belong to the group you have mentioned in No.(54a) above.

i)

ii)

c) Give **one** sign of crops damaged by pests in the garden.
.....

55.a) State **two** types of images.

i)

ii)

a) State **two** characteristics of the images formed by the eye.

i).....

ii)

END

54.a) What name is given to a group of crops which are grown and harvested within a year ?

.....

b) Give **two** examples of crops that belong to the group you have mentioned in No.(54a) above.

i)

ii)

c) Give **one** sign of crops damaged by pests in the garden.

.....

55.a) State **two** types of images.

i)

ii)

a) State **two** characteristics of the images formed by the eye.

i).....

ii)