



# NORTH ANKOLE DIOCESE EDUCATION DEPARTMENT



## PRE-PRIMARY LEAVING EXAMINATION 2023

### INTEGRATED SCIENCE

*Time Allowed: 2 Hours 15 Minutes*

Index No.:

Random No.						Personal No.		

Candidate's Name: .....

School Name: .....

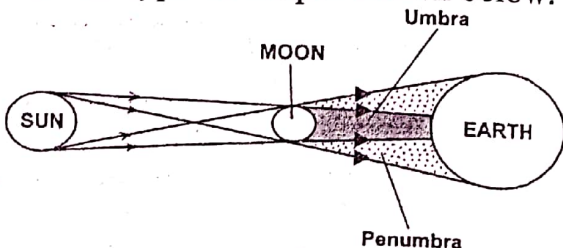
Archdeaconry: .....

Read the following instructions carefully

1. This paper has sections **A** and **B**. Section **A** has **40** questions. Section **B** has **15** questions.
2. Answer all questions. All answers to both sections **A** and **B** must be written in the space provided.
3. All answers must be written in **blue** or **black** ball point pen or ink, only **diagrams** and **graph** work may be done in pencil.
4. Any handwriting that cannot be easily read may lead to loss of marks.
5. No **calculators** are allowed in the examination room.
6. Do not fill anything in the box shown for **Examiner's Use Only**.

"FOR EXAMINER'S USE ONLY"		
Qn. No.	MARKS	EXR'S SIGN
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 - 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

## SECTION A:

1. Mention any **one** natural source of sound energy.  
\_\_\_\_\_
2. Name any **one** plant with a weak stem.  
\_\_\_\_\_
3. Apart from tasting, how else is the tongue used in the mouth?  
\_\_\_\_\_
4. State any **one** advantage of growing crops together with trees in the same garden.  
\_\_\_\_\_
5. Name the poisonous type of alcohol.  
\_\_\_\_\_
6. Why is sugar always included in orals?  
\_\_\_\_\_
7. Name the bacteria that causes typhoid.  
\_\_\_\_\_
8. State the use of blubber to whales.  
\_\_\_\_\_
9. Write down any **one** example of mixtures that can be separated by winnowing.  
\_\_\_\_\_
10. Give any **one** raw material for photosynthesis.  
\_\_\_\_\_
11. Why is expiry date always indicated on packed food?  
\_\_\_\_\_
12. Mention any **one** waste material contained in sweat.  
\_\_\_\_\_
13. Give **one** reason why food taboos should be discouraged in our community.  
\_\_\_\_\_
14. State the function of billhook in a banana plantation.  
\_\_\_\_\_
15. Name the type of eclipse shown below.  


The diagram illustrates a solar eclipse. On the left is the SUN, represented by a circle with rays. In the middle is the MOON, also a circle. On the right is the EARTH, a larger circle. Lines representing light rays from the Sun are shown passing behind the Moon. The Moon casts two shadows on the Earth: a dark, central region labeled 'Umbra' and a lighter, outer region labeled 'Penumbra'.
16. Which exotic breed of goats is kept for mohair?  
\_\_\_\_\_

17. To which group of invertebrates is an octopus?

18. Name the type of current electricity that is used for making electromagnets.

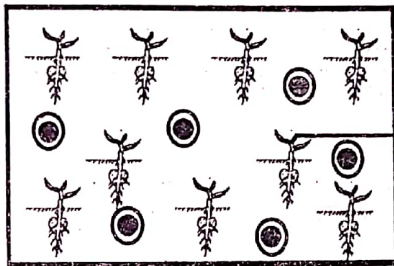
19. Give one element of primary health care that is promoted through smoking latrines?

20. Name any **one** food stuff that provides proteins.



21. Give any **one** way petroleum is used as an energy resource.

22. Mention the crop growing practice that should be carried out in the garden below.



seedling

23. Name any **one** device that reproduces stored sound.

24. Mention any **one** group of vulnerable people.

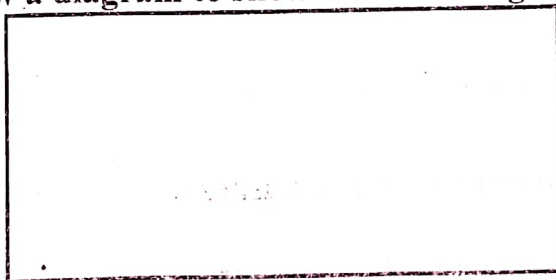
25. Give any **one** situation at school where a single fixed pulley is used.

26. State any **one** characteristic of self pollinated flowers.

27. Why is the image formed in human eyes said to be real?

28. State the use of root nodules in the roots of leguminous plants.

29. Draw a diagram to show a water trough in the space provided below.



30. Give any one factor that affects the rate of transpiration.

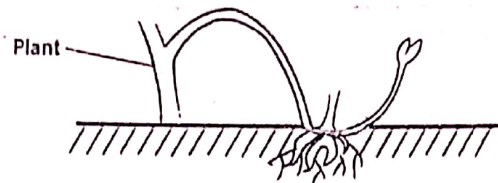




31. How is thermal electricity produced?

32. Give any one way the spread of candidiasis can be controlled at school.

33. Name the method of vegetative propagation shown below.



34. Suggest any one use of melanin in the human skin.

35. Why is the floor of a sty always constructed in a slanting way?

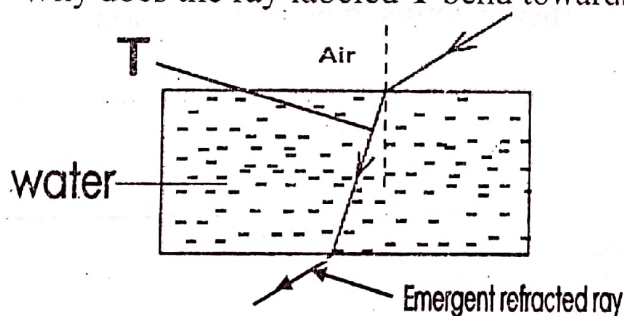
36. How does a porcupine protect itself from enemies?

37. Name the digestive juice produced in the ileum.

38. Give any one way windy weather is harmful in the environment.

39. How is the diaphragm important during exhalation?

40. Why does the ray labeled T bend towards the normal in the diagram shown below?



### **SECTION B:**

41. (a) Name any two endo parasites that affect people.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Give any **two** ways of controlling endo parasites in children.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

42. (a) State the first aid for each of the following;  
(i) Fever \_\_\_\_\_  
(ii) Snake bite \_\_\_\_\_  
(b) Give any one way of controlling scalds at home.

\_\_\_\_\_

(c) Why are casualties sometimes taken to the hospital after receiving first aid?

43. Use the list of organisms below and answer the questions that follow.  
**Chicken, Caterpillar, Bean plant, Eagle**

(a) Name the producer in the list above

\_\_\_\_\_

(b) Which organism provides food to chicken in the list above?

\_\_\_\_\_

(c) Form a food chain using the organisms shown in the list above.

\_\_\_\_\_

(d) Mention any one group of organism that decomposes organic matter in the environment.

44. (a) How is a **vector** different from a **germ**?

\_\_\_\_\_

(b) Give any one way vectors spread germs to people.

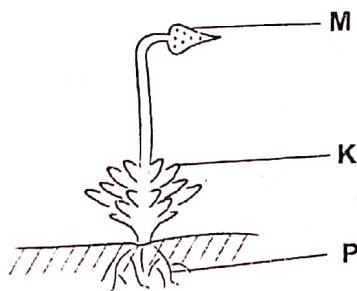
\_\_\_\_\_

(c) Name the vector that spread each of the following germs;

(i) **Trypanosoma** \_\_\_\_\_

(ii) **Plasmodia** \_\_\_\_\_

45. The diagram below shows a non flowering plant, study it and answer the questions that follow.



(a) Name part labeled P.

(b) Name the cells produced by part labeled M.

(c) State the function of part labeled K.

(d) How does the plant shown above benefit from algae at its young stage?

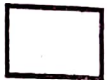
46. Which type of change is each of the following?

(i) Moulting

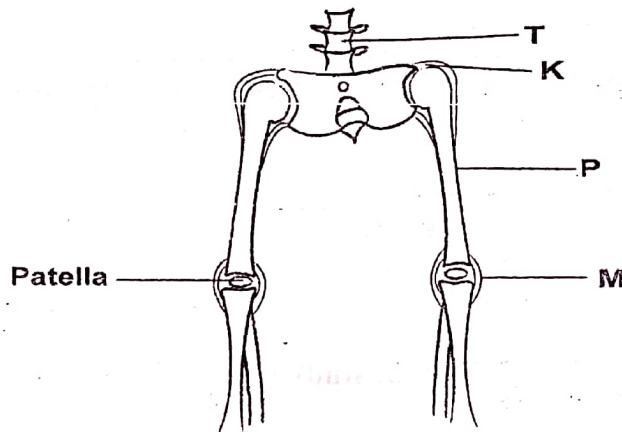
(ii) Hatching of eggs

(iii) Boiling of eggs

(b) Mention any one change that needs oxygen to occur.



47. The diagram below shows part of the human skeleton, study it and answer the questions that follow.



(a) Name the bone labeled;

(i) T

(ii) P

(b) Which movable joint is labeled K?

(c) State the function of part labeled M.

48. (a) What is swarming?

(b) Give any two conditions that lead to swarming.

(i)

(ii)

(c) Give any one way of preventing bees from swarming.



49. Match each simple machine in list **K** with the group it belongs in list **M**.

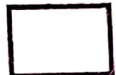
**List K**

- (i) Door knob
- (ii) Screw driver
- (iii) Plunk of wood
- (iv) Bottle opener

**List M**

- inched plane
- levers
- wheel and axle
- screws

- (i) Door knob \_\_\_\_\_
- (ii) Screw driver \_\_\_\_\_
- (iii) Plunk of wood \_\_\_\_\_
- (iv) Bottle opener \_\_\_\_\_



50. (a) Name the dairy exotic breed of cattle that produces the highest amount of milk.

\_\_\_\_\_

(b) Give any **two** characteristics of exotic breeds of cattle.

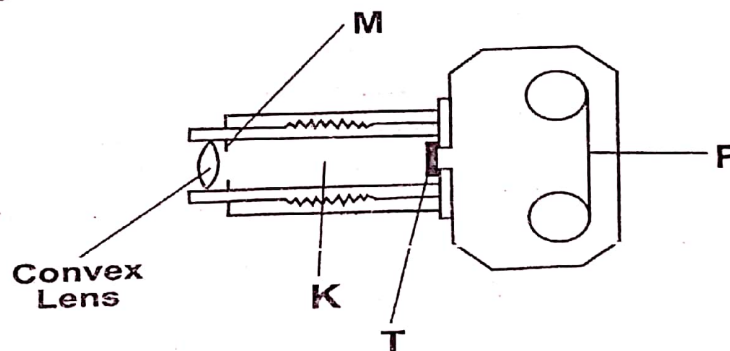
(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) How is a strip cup important to a dairy farmer?

\_\_\_\_\_

51. The diagram below shows a lens camera, study it and answer the questions that follow.



(a) Name parts labeled;

(i) P \_\_\_\_\_

(ii) K \_\_\_\_\_

(b) State the function of part labeled T.

\_\_\_\_\_

(c) Which part of the human eye has the same function as part labeled M?

\_\_\_\_\_

52. (a) How does yeast reproduce?

(b) Give any **two** ways yeast is important in our daily life.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) To which group of living things does yeast belong?

53. (a) What causes marasmus?

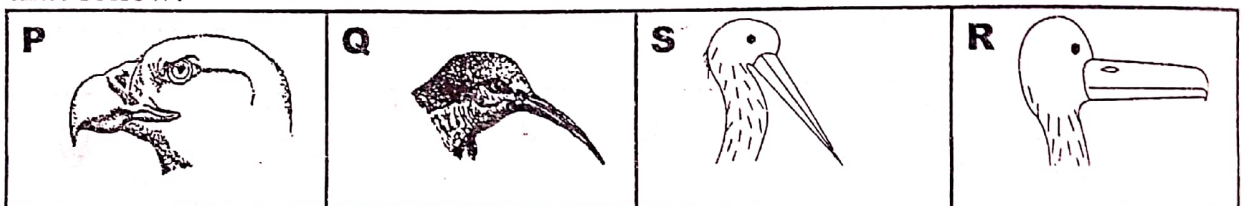
(b) Give any **two** signs of marasmus.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) Name the class of food that prevents marasmus.

54. The diagrams below show beaks of birds, study them and answer the questions that follow.



(a) Name any one bird with the beak marked **P**.

(b) What do birds with the beak marked **Q** feed on?

(c) To which group of birds is each of the following beaks?

(i) **S** \_\_\_\_\_

(ii) **R** \_\_\_\_\_

55. (a) Mention any **two** examples of irregular objects.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Name the method used to measure volume of irregular objects.

(c) Give any **one** way **volume** is different from **mass**

-End-