

BETHEL JUNIOR SCHOOL EXAMINATION BOARD,OYAM

2025 PRE MOCK SET ONE

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random No:						Personal No:		

Candidate’s Name:

Candidate’s signature:

District ID No:

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 DISTRICT NAME

School Name:

Read the following instructions carefully :

- 1. Do not forget to write your **school** or **district** on the paper
- 2. This paper has two sections: **A** and **B**.
- Section **A** has **40** questions and section **B** has **15** questions.
- 3. Answer **all** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
- 4. All answers must be written using a **blue** Or **black** ball point pen or ink. Any work Written in pencil will not be marked.
- 5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
- 6. Do not fill anything in the table indicated **“FOR EXAMINER’S USE ONLY”**

FOR EXAMINER’S USE ONLY		
QN. NO.	MARKS	EXR’S NO.
1 -10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

TURN OVER

SECTION A (40 MARKS)

1.Name the process through which ice changes into water.

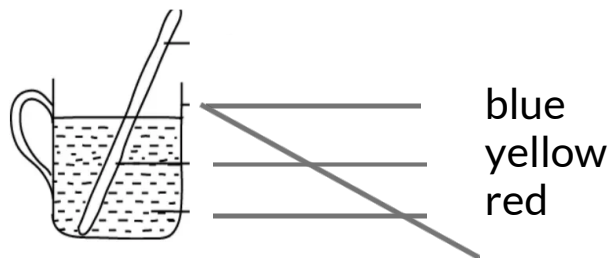
2.State any one way in which the spread of germs by houseflies can be controlled.

3.Which type of soil has low water holding capacity?

4.Why is an ostrich unable to fly?

5.Write down the vector that spread rabies to people.

The diagram below is of a jag,study it carefully and answer question 6 and 7



6.What is the colour of the jag shown above?

7.Give a reason to support your answer above.

8.How is air circulation improved in a rabbit hutch?

9.Mention any one plant propagated artificially by grafting.

10.Give any one reason why bright light is discouraged in a poultry house.

11.How is coal different from petroleum as fossil fuels?

12.Name the standard unit for measuring mass.

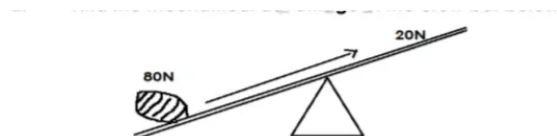
13.Identify the animal fibre obtained from angora goats.

14.Give a reason why iron is important in our diet.

15.Write down any one way of reducing friction in moving parts of a machine.

16.In which form is carbon dioxide and water vapour removed from the body.

Use the diagram of a simple machine below to answer question 17.



17.Name the class of simple machine shown above.

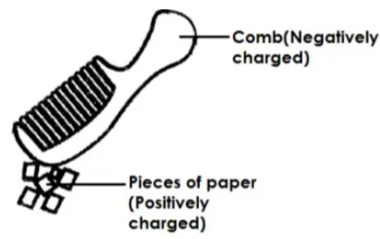
18.Why is aluminum commonly used to make utensils.

19.Write down any one condition necessary for photosynthesis to take place.

20.In which one way is sound similar to light as forms of energy.

22.Mention any one cause of hardness in water.

The diagram below shows a method of making electricity, study it carefully and answer questions 23 and 24.



23.Which type of electricity is made by the method shown above.

24.Write down any one example of the above type of electricity in nature.

25.Give any one way soil is useful to rats.

26.How is the function of gall bladder different from that of urinary bladder?

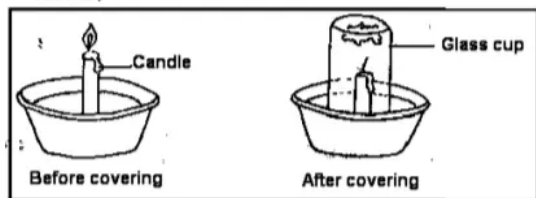
27.Why are children advised to wear shoes.

28.State the use of hard brooms in a school.

29.In which one way is echo useful to a blind old man.

30.Name the germ that causes wilt disease in a banana plant.

— The diagram below shows an experiment on oxygen as a component of air, study it carefully and answer question 31.



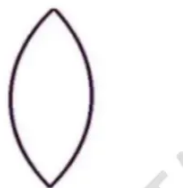
31.Give a reason why the candle goes off after covering.

32.Name the garden tool used for harvesting cereals.

33.State any one way a cattle keeper can control anaplasmosis disease in a cattle farm.

34.How does a lightning arrester safeguard a building from the danger effect of lightning?

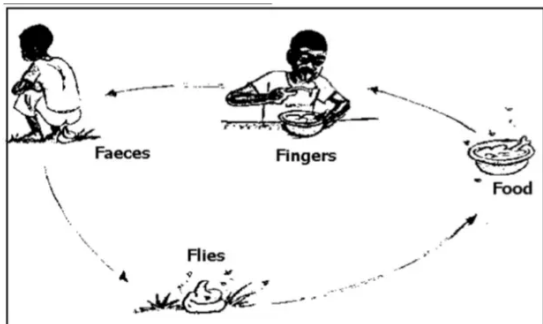
35.Name the type of a lense shown below.



36.Give any one cause of scald.

37.Write down any one danger of shadows in the environment.

The diagram below shows a way germs are spread in the environment,study it carefully and answer question 38



38.Mention any one way or preventing diseases spread by the method above.

39.Find the effort needed to lift a load of 40kg using a single movable pulley.

40.Why is the moon not regarded to as a luminous object.

SECTION B(60 MARKS)

41(a) Name the type of teeth that develop last in human.

b) Mention the feature that enables the following types teeth to perform their duties.

i) Canine

ii) Incisor

c) How do eating too much sweets causes tooth decay?

42(a)Give any two tools useful in promoting sanitation.

i).....

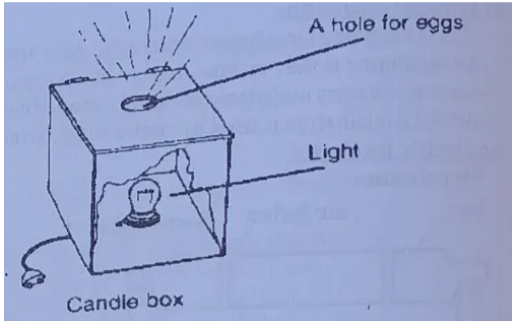
ii).....

b) Mention any two elements of sanitation.

i).....

ii).....

43.The diagram below shows an equipment used in poultry management.Study it carefully and answer questions that follow.



- a) Name the poultry equipment drawn above.
- b)How is the poultry equipment shown above important in a poultry farm?
- c) Write down any two ways of preventing poultry diseases in a poultry farm.
- i).
- ii).

- 44(a)Why do sound travels fastest in solids?
- b) How is the pinnae adapted to it function?
 - c)Give any two dangers of sound as a form of energy.
 - i).
 - ii).

45.The table below shows classes of plants in the environment,use it to answer questions that follow.

GROUP C	GROUP D	GROUP E
pine tree cedar tree cypress tree fir plant	maize plant rice plant banana plant sorghum plant.	fern plant moss plant liverwort plant horsetail plant

- a) Identify the class of plants in which plants in ground D are classified.
- b). Name the part of a mushroom that performs a similar function as cone in a pine tree.
- c).In which one way are plants in group C and E;
- i) similar
- ii) different

- 46(a) Mention any one disease that commonly affects both rabbits and people.
- b)Why are rabbits given block of salts to lick?
 - c)Name the breed of rabbits which provide fur.

d). Write down any one reason why people prefer rearing rabbits to cattle.

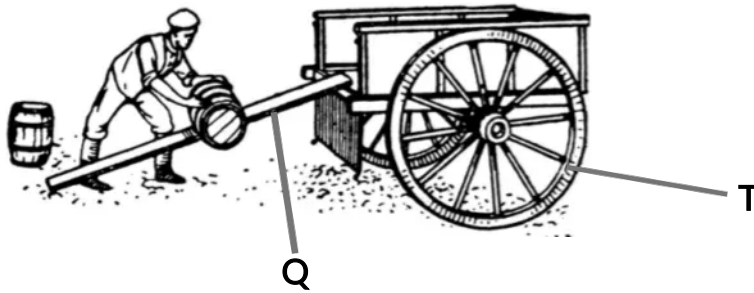
47(a). Define the term "environmental degradation?"

b). Mention any two natural causes of environmental degradation.

i).....

ii).....

48. Mr. Olema loaded a cart as shown on the diagram below. Study it carefully and answer questions that follow.



a) To which class of simple machines do Q and T belong?

i) Q

ii) T

b). Name any one force Mr. Olema overcomes when pushing the log along simple machine Q

c). Mention any one factor that reduces efficiency of a machine.

49(a). Write down any two uses of harmless fungi in the environment.

i).....

ii).....

b) Name trophic level of fungi in a food chain.

c) How is reproduction in yeast different from that in mushroom?

50(a) Mention the body system which is affected by the following disorders.

i) burn

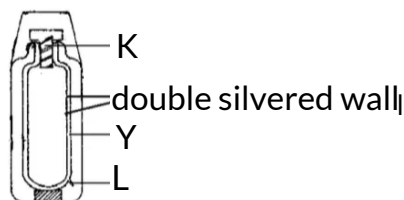
ii) choking

b). Mention any two body conditions that can be mistaken for HIV/AIDS.

i).....

ii).....

51. Study the diagram of a vacuum flask below carefully and answer questions that follow.



a). Name part marked with letter L.

b). Why is part marked with letter K made of plastic materials?

c) Give any two ways a vacuum flask is adapted to its function.

- i).....
 ii).....

52. The table below shows a list of tools used in a cattle farm and their functions. Study it carefully and match correctly each tool to its function.

TOOLS	FUNCTIONS
Strip cup	for carrying out a closed operation
Drenching gun	for detecting fat level in the milk
Burdizzo	for detecting the presence of mastitis in the milk
Lactometer	for giving liquid medicine to sick cattle

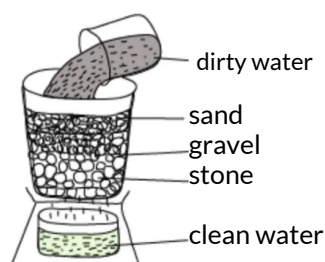
a) Strip cup.....

b) Drenching gun.....

c) Burdizzo.....

c) Lactometer.....

53. The diagram below shows a method of separating a mixture, study it carefully and answer questions that follow.



a). Identify the method of separating mixtures shown above.

b) How are the following components important in the method shown above.

i) sand.....

ii) stone.....

c) Why is water made by the above method not safe for drinking.

54(a) Name the component of air used by animals to produce energy.

b) In which one way is the trachea similar to the pinnae in the way they are made.

c). Write down any two waste products for respiration.

55. In four sentences, explain how you would carry out an experiment to show that soil contains mineral salts.

i).....

ii).....

iii).....

iv).....