



GRACE BOOK EXAMINATIONS BOARD

PRIMARY SEVEN EXAMINATIONS

2024

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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**Read the following instructions carefully:**

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **15 printed pages** altogether.
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 EXAMINERS' USE ONLY"** and boxes inside the question papers.

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		

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**Turn over**

Questions **1** to **40** carry one mark each.

1. Which aspect of wind is measured using anemometer?

.....

2. Write down any **one** important piece of information found in a child health card.

.....

3. State the effect of Vitamin B3 deficiency to one's body.

.....

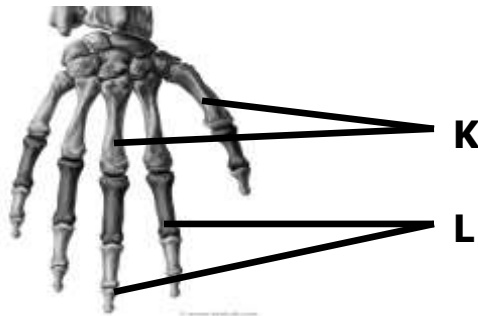
4. Name the garden tool used by crop farmers for digging in stoney areas.

.....

5. Give a reason why the filament of an electric bulb is coiled.

.....

The diagram below shows part of the skeleton found in the human arm. Study and use it to answer questions **6** and **7**.



6. Identify the bones marked with letter **K**.

.....

7. Name the group of bones to which bones **L** and **K** belong?

.....

8. Mention any **one** item used for preventing rusting of iron metals.

.....

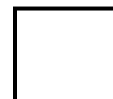
**Turn over**

9. How is stigma of a flower functionally similar to vagina of a human being?

.....

10.State the type of energy which is possessed by a stationary ball?

.....



11.In which way is a panpipe different from a lyre in the way they produce sound?

.....

.....

12.Name the structure in the pharynx which ensures that the trachea is kept free from food particles.

.....

13.In what way do crop farmers commonly protect their feet against injuries while working in the garden?

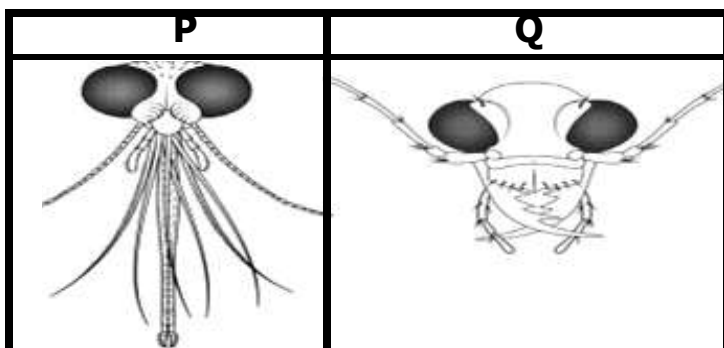
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14.Give **one** reason why it is possible to separate petroleum products using fractional distillation.

.....

**Turn over**

The diagram below shows types of mouth parts found in different insects. Study and use it to answer questions **15** and **16**.



15.What scientific name is given to mouth part labelled **Q**?

.....

16.How is feeding in insects with mouth part **P** different from that in insects with mouth part **Q**?

.....

.....

17.Name any **one** breed of rabbits besides Chinchilla and Angora rabbits.

.....

18.Why do people who smoke tobacco find it difficult to stop that habit?

.....

19.By what process does paraffin move up through the wick of a kerosene lamp?

.....

20.What is the similarity between female anopheles mosquito and tsetse fly in the way they spread diseases to people?

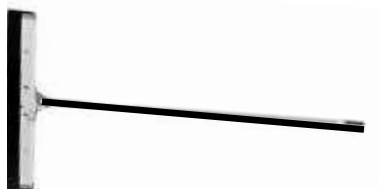
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**Turn over**

21.Mention **one** practice done by livestock farmers to eliminate random mating among their cattle.

22.In which way do animals like dogs get rid of excess heat in their bodies?

The diagram below is of an item commonly used to promote sanitation on a cemented floor. Study and use it to answer questions 23 and 24.



23.Name the sanitary item drawn above.

24.Of what importance is the above sanitary item in promoting sanitation at home?

25.Write down any **one** natural disaster caused by unfriendly weather in our environment.

26.Which components of air do plants use in respiration?

27.Apart from making alcohol, state any one other way how fermentation is useful to people.

**Turn over**

28.State the method of heat transfer which takes place in the absence of matter.

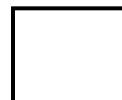
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29.Why do banana farmers commonly cut off the leaves from a banana sucker before transplanting?

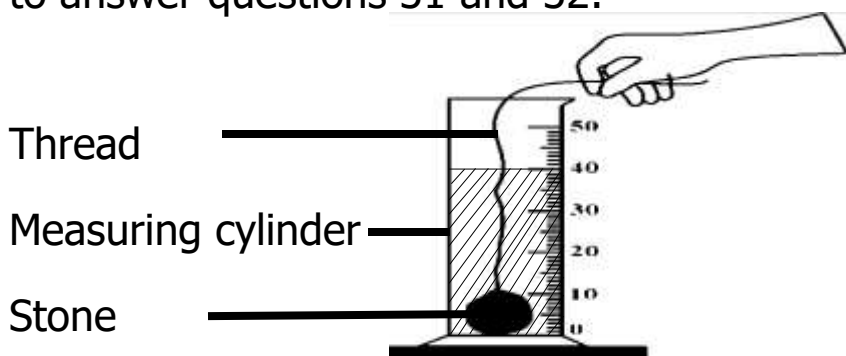
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30.In which **one** way are egrets adapted to their mode of movement?

.....



The diagram below shows an experiment carried out by P.5 pupils to determine the volume of a stone of mass 120g. Study and use it to answer questions 31 and 32.



31.State the importance of the thread in the above experiment.

.....

32.If the density of the stone is 30g/cc, to what height does the water level drop after removing the stone carefully from the measuring cylinder?

.....

.....

33.Which type of change occurs when a candle wick burns?

.....

**Turn over**

34.Mention any **one** factor that limits machine method of washing clothes in rural areas of Uganda.

.....

35.Name the component of blood whose function is aided by Vitamin K.

.....

36.What is the main function of a garden trowel to tomato farmers?

.....

37.How is reproduction in monotremes similar to that in scorpions?

.....

.....

38.Apart from letting in faeces, state any one other importance of a squat hole in a VIP latrine.

.....

.....

39.State any **one** adaptation of prop roots to their functions.

.....

40.Write down any **one** method of family planning which delays ovulation.

.....



**Turn over**

## SECTION B: 60 MARKS

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

41.a) Give any **two** examples of insects that live, move and work together.

i) .....

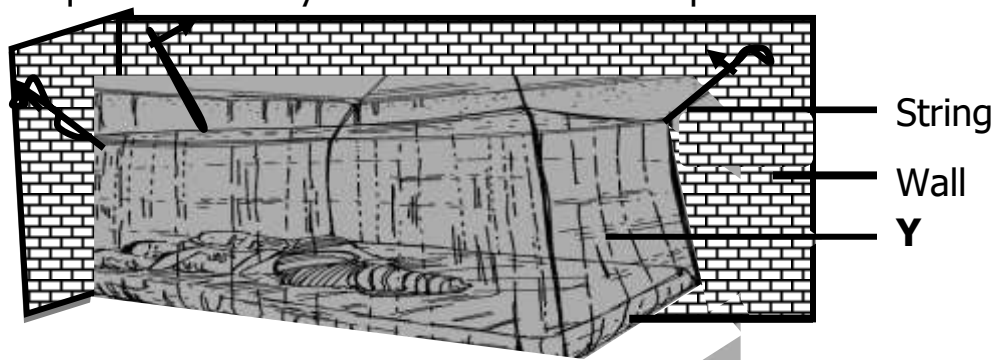
ii) .....

b) Mention **two** ways how the insects in 41 a) above benefit from their social mode of life.

i) .....

ii) .....

42.The diagram below shows a mother and her newly born baby sleeping in a mosquito net. Study and use it to answer questions that follow.



a) State the importance of the string in the above diagram.

.....

b) Why is part labelled **Y** made of porous material?

.....

c) Give a reason why the holes on part **Y** should not be made very wide.

.....

d) How does part marked **Y** reduce the spread of malaria in a home?

.....

.....

**Turn over**



43.a) What are renewable resources?

.....  
.....

b) Mention any **one** non living renewable resources in the environment.

.....

c) State any **one** way of conserving charcoal at home.

.....

d) How are plants and animals similar in the way they are replaced?

.....



44.a) Name **one** digestive organ which is not part of the alimentary canal.

.....

b) Which type of digestion involves churning food by the stomach walls?

.....

c) Mention the disease of the digestive system that can be spread through unprotected sexual intercourse.

.....

d) State any **one** adaptation of ileum to its function.

.....

45.a) Write down the form of asexual reproduction undergone by the following organisms.

i. Bacterium: .....

ii. Yeast:.....

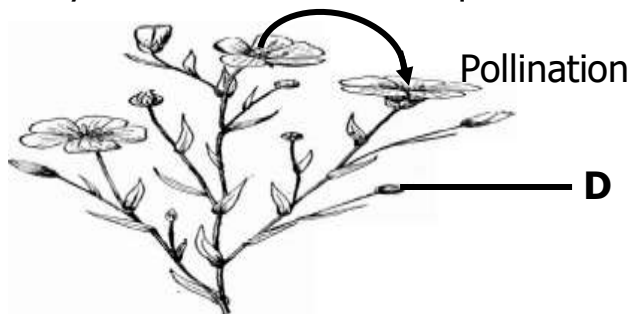
b) State any **one** importance of the above organisms in the environment.

i. Bacterium: .....

ii. Yeast: .....

**Turn over**

46. The diagram below shows pollination taking place in flowers on a plant. Study and use it to answer questions that follow.



a) Name the part of a flower that protects it at stage D.

.....

b) Apart from protection, state **one** other function of the structure named in a) above.

.....

c) Identify the type of pollination illustrated on the diagram above.

.....

d) How is the above type of pollination similar to layering in vegetative propagation?

.....

.....



47.a) Which type of chicken is commonly purchased by people who roast and sell chicken in town areas?

.....

b) Mention any **two** factors considered by people when buying the type of chicken named in a) above.

.....

.....

**Turn over**

c) Give any one **way** in which poultry business is beneficial to people.

.....

48.a) Which component of soil is formed as a result of:-

i.Weathering: .....

ii.Decomposition: .....

b) State any **one** factor that affects soil formation by weathering.

.....

c) Apart from reducing the speed of flowing water, how else do short grass control soil erosion in a school compound?

.....

49.a) What form of accident is sustained by a person when strong acid suddenly pours on his or her skin?

.....

b) Mention any **two** roles of a good first aider.

.....

.....

c) State the difference between first aid kit and first aid box.

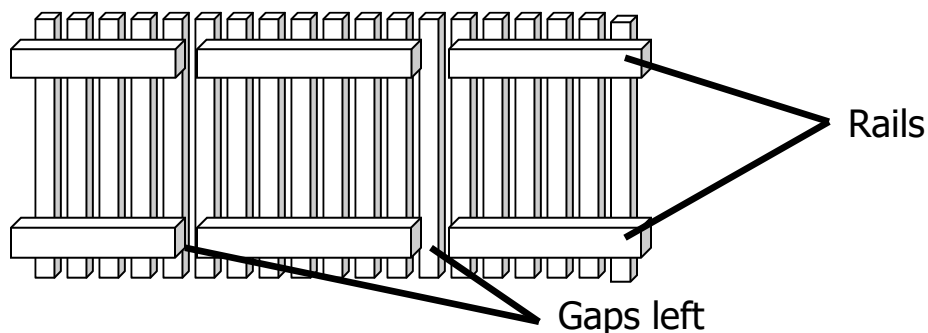
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**Turn over**

50. The diagram below shows part of a railway line. Study and use it to answer questions that follow.



a) Which form of energy causes changes in the length of metal rails above?

.....

b) State the danger that would result from failure to leave the above gaps.

.....

.....

c) Explain why the gaps shown in the diagram above become narrower whenever a train rolls over the rails above. (2 marks)

.....

.....

51.a) In **one** sentence, give the meaning of Primary Health Care?

.....

.....

b) Which element of P.H.C is promoted using a pumice stone?

.....

c) State the principle of P.H.C that discourages youths from dodging activities which promote sanitation in a community.

.....

**Turn over**

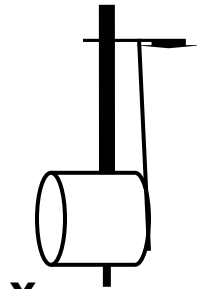
d) How does the government of Uganda support P.H.C program in case there is outbreak of an immunisable disease?

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52. During End Of Year Graduation ceremony for Top Class at KCB Preparatory school – Bukedea, the following musical instruments were played.



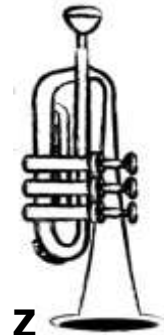
**W**



**X**



**Y**



**Z**

a) Which of the above musical instruments is an aerophone?

.....

b) State the difference between instruments **W** and **Z** in the way they produce sound.

.....

.....

c) In which way is the musical instrument **X** made to produce sound?

.....

d) How does tightening the strings of musical instrument **Y** affect the sound it produces?

.....



**Turn over**

53.a) Name the branch of aorta which supplies oxygenated blood to the heart muscles.

.....

b) State the advantage of the thin walls of blood capillaries in body organs.

.....

c) What structural adaptation enables white blood cells to perform their functions effectively?

.....

.....

d) How is the effect of HIV to the human circulatory system different from that of plasmodium?

.....

.....

54.a) Mention any **two** examples of bad behaviours common among school children.

i. ....

ii. ....

b) State **two** good strategies used by teachers to reduce bad behaviours among school children.

i. ....

ii. ....

**Turn over**

55. The table below shows garden tools in list A and their uses in list B.

Study it carefully and write your answers in the spaces provided below the table.

A	B
Garden trowel	Digging in rocky areas
Sickle	Scooping young plants from the soil
Forked hoe	Harvesting cereals from the garden
Pair of secateurs	Cutting unproductive branches from a plant

a) Garden trowel.....

b) Sickle .....

c) Forked hoe .....

d) Pair of secateurs .....



THE END