

HIQMAH JUNIOR SCHOOL-GANGU
PRE-PLE SET I EXAMINATIONS 2024
INTEGRATED SCIENCE

Time Allowed: 2hours 15 Minutes

INDEX NO.									
------------------	--	--	--	--	--	--	--	--	--

CANDIDATE'S NAME:

.....

SIGNATURE:

.....

DISTRICT NAME:

.....

READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1 This paper has two sections: **A** and **B**.

2 Section **A** has **40** questions (**40** Marks).

3 Section **B** has **15** questions (**60** Marks).

4 Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.

5 All answers must be written in **blue** or **black** ball point pens or ink. Only diagrams and graph work must be done in pencil.

6 Unnecessary alteration of work will lead to loss of marks.

7 Any handwriting that cannot be easily read may lead to loss of marks.

8 Do not fill anything in the boxes indicated: **"FOR EXAMINER'S USE ONLY"**.

FOR EXAMINERS' USE ONLY.

Qn. No.	MARKS	INITIALS
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 body sense organ for feeling.

.....
.....

2. How do we call the process by which food is broken down into small soluble particles that can be absorbed by the body?

.....
.....

3. Give any **one** way of conserving fossil fuels in the environment.

.....
.....

4. How do we call the breathing organs of a spider?

.....
.....

5. Mention any **one** example of a perennial crop.

.....
.....

6. How are secateurs important to a crop farmer?

.....
.....

7. Why is a stone regarded as an irregular object?

.....
.....

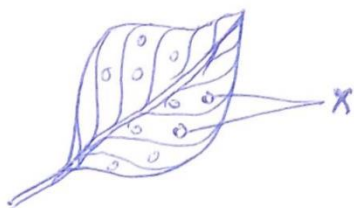
8. What do you understand by the term **germination**?

.....
.....

9. How does sound from a radio reach the ears of the listener?

.....
.....

Use the diagram below to answer questions 10 and 11.



10. Name the structures marked X in the diagram above.

.....
.....

11. Name the human body organs that perform the same function like that of the structures mentioned above.

.....
.....

12. State any **one** difference between mass and weight.

.....
.....

13. Name the **longest** bone in the bone.

.....
.....

14. Give any **one** physical process involved in the water cycle.

.....
.....

15. Identify any **one** way of preventing cannibalism in a poultry house.

.....
.....

16. How is a duck billed platypus similar to a duck in terms of their reproduction.

.....
.....

17. Covert 0°C to $^{\circ}\text{F}$

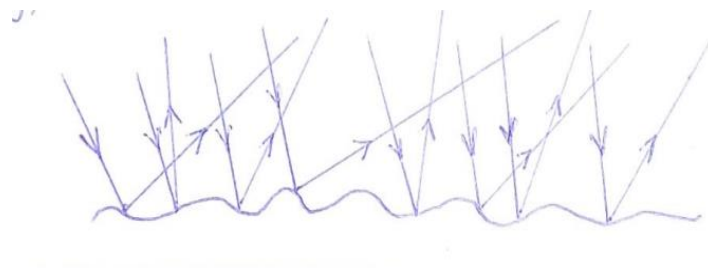
18. Mention any **one** natural source of light in the environment.

.....
.....
19. Write down any **one** way in which plants depend on people.

.....
.....
20. How is an eagle dangerous to a poultry farmer?

.....
.....
21. Identify any **one** example of a tick borne disease that affects cattle.

.....
22. What type of reflection is illustrated in the diagram below?



.....
.....
23. In one sentence explain the term **lever**.

.....
.....
24. Why do chameleons change their colors of appearance?

.....
.....
25. What term describes a **combination of gases**?

.....
.....
26. Why are handles of an iron box made of wood?

27. State any **one** factor considered when classifying animals in the ecosystem.

.....
.....

28. Briefly explain the term **Vasoconstriction** as used in excretory system.

.....
.....
.....

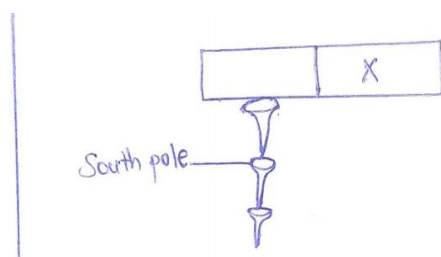
29. Give any **one** cultural practice that promotes the spread of AIDS.

.....
.....

30. Which process is used to obtain water from ice?

.....
.....

31. Name the magnetic pole marked with letter **X** below.



.....
.....

32. Why is water regarded as a renewable resource?

.....
.....

33. Why should health workers prescribe drugs?

.....
.....

34. Mention any **one** condition necessary for rusting to take place.

.....
.....

35. Why is **tepid sponging** an important first aid to a person with high fever?

.....
.....
36. Name the last type of teeth to grow in humans.

.....
.....
37. How does a crop farmer benefit from a nearby apiary?

.....
.....
38. Why are plants regarded as producers in the food chain?

.....
.....
39. Write down any **one** property of air.

.....
.....
40. Suggest any **one** example of water borne disease that affects the skeletal system.

SECTION B (60 MARKS)

41a) Explain the meaning of the term **rehydration**.

.....
...

b) Give any **one** way a dehydrated person can be rehydrated.

.....
.....

c) Write down two mineral salts that are regained in the body during rehydration.

.....
.....

42a) What are **renewable resources**?

.....
.....

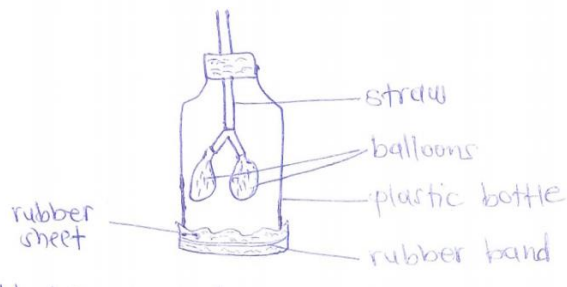
b) Why is the sun referred to as a renewable resource?

.....
...
c) How is the sun important to the following?

i) Rain cycle

.....
...
ii) Plants

.....
...
43. The diagram below shows a body system. Study it carefully and use it to answer the questions that follow.



a) Identify the body system shown above?

.....
.....
b) Name the of the body system mentioned above represented by ;

i) Straw

.....
...
ii) Balloons

.....
.....
c) State what would happen to the rubber sheet if the balloons are filled with air?

.....
.....
44a) What do you understand by the term **puberty**?

b) Give any **two** physical sex changes that occur in both boys and girls.

i)

ii)
.....

c) Give any **one** way adolescents can manage their body changes.

.....

45a) Write down **two** methods of heat transfer in matter.

i)
.....

ii)
.....

b) Identify any **one** effect of heat gain on matter.

.....

c) Give any **one** natural process that produce heat in the environment.

.....

46a) What is a **joint**?

.....

b) State any **one** substance that helps to reduce friction around a joint.

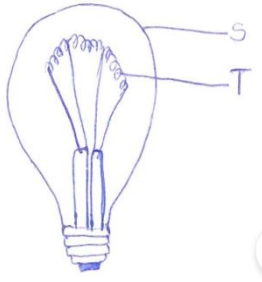
.....

c) Write down any **two** examples of antagonistic muscles.

i)

ii)
.....

47. Study the diagram of an electric bulb below and use it to answer the questions that follow.



a) Name the part labeled with letter S.

.....

b) Give a reason why part marked T is coiled?

.....

c) Suggest any **one** reason why an electric bulb may fail to give out light.

.....

d) Mention any **one** gas that is enclosed in part marked S.

.....

48. Sylvia put one table spoonful of sugar into a glass of water and stirred it. The sugar then disappeared.

a) State what happened to the sugar?

.....

b) What did the following act as in the above process?

i) Water

.....

ii)

Sugar.....

.....

c) Write down the scientific name given to the final content in Sylvia's glass.

.....

49a) Define the term **balanced diet**.

.....

b) Write down any **two** classes of food.

i)

.....

ii)

.....

c) Suggest any **one** disease prevented through feeding on a well balanced diet.

.....

50a) Where does absorption of digested food take place in the human alimentary canal?

.....

b) Which type of digestion that takes place in the mouth by the action of the teeth?

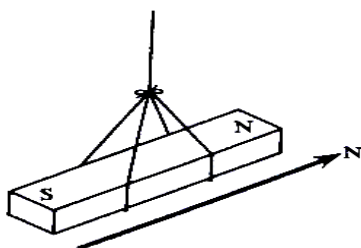
.....

c) Mention any **two** disorders of the digestive system.

i).....

ii).....

51. Below is a diagram showing a property of magnets. Study it carefully and answer the questions that follow.



a) State the property of magnets shown in the diagram above.

.....

b) Apart from the property of magnets written in (a) above, mention any **one** other property of magnets.

.....

c) Mention any **one** example of a magnetic material.

.....

d) Suggest any **one** way of demagnetizing a magnet.

.....

52 a) Name the **largest vein** in the body.

.....

a) Give any one functional difference between most veins and arteries in the human circulatory system.

.....

.....

c) Name the mosquito borne disease that attacks the red blood cells.

.....

d) Suggest any **one** way of maintaining the proper functioning of the blood circulatory system.

.....

53. Match list A with list B correctly.

List A

Lungs

Kidneys

Liver

Skin

i) Lungs

.....

ii) Kidneys

.....

iii) Liver

.....

iv) Skin

.....

List B

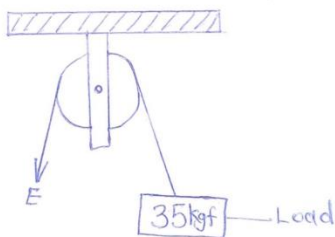
Bile pigments

Sweat

Carbon dioxide

Urine

54. Use the diagram below and answer the questions below it.



a) Name the type of pulley system drawn above.

.....

b) Give any **one** use of the above pulley in our daily life.

.....

c) Find out the amount of effort needed to overcome the load shown in the above pulley system.

55. Complete the table below correctly.

IMMUNISABLE DISEASE	VACCINE ADMINISTERED	MODE OF ADMINISTRATION	BODY SITE
i)..... ..	BCG Vaccine	Injection	Right Upper Arm
Diarrhea	ii)..... .	Orally	Mouth
Diphtheria	DPT Vaccine	Injection	iv)..... ..
Polio	Polio vaccine	iii).....	Mouth

END.