

GREENHILL PRIMARY SCHOOLS

PRE-PLE JOINT MOCK EXAMINATION 2024

(SET IV)

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No:

Random No.						Personal No.		

Candidate's Name:

Stream: **Campus:**

Signature:

Do not open this booklet until you are told to do so.

Read the following instructions carefully.

1. This paper consists of 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. Answers to both sections must be written in spaces provided in full sentences.
5. All answers must be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will **NOT** be marked.
6. Crossing out of answers will lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks

FOR EXAMINERS USE ONLY

QN.NO.	MARK	SIGN
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

SECTION A:

1. Name the component of air which occupies the highest percentage in the atmosphere.
.....
2. Of what importance is a stretcher when giving first aid?
.....
3. Besides looking at a child health card, how else can a child who has been immunised against tuberculosis be identified?
.....
4. Name the disease of the skeletal system prevented by boiling water for drinking.
.....
5. Mention **one** method used by bee keepers to extract honey.
.....

The diagram below is of a common garden tool. Use it to answer questions 6 and 7.



6. Name the garden tool drawn above.
.....
7. State **one** danger of leaving the garden tool above outside at night.
.....
8. Give any **one** importance of litter found in a poultry house.
.....
9. Which part of a cow is used for chasing off disturbing insects?
.....
10. Give a reason why distilled water is not recommended for drinking.
.....
11. Peter wants to supply Serena Hotel with eggs, what type of chicken would you advise Peter to rear?
.....
12. State the effect of clouds to the environment.
.....

13. Name the type of electricity produced when insulators are rubbed against each other.

.....

14. How are the units used for measuring mass different from those of weight?

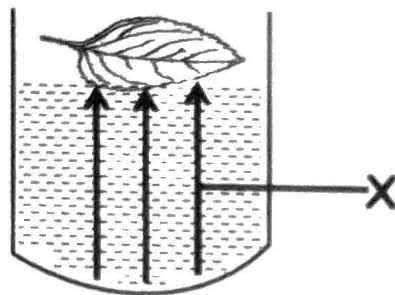
.....

.....

15. Identify **one** bird responsible for promoting sanitation by eating carrion.

.....

The diagram below shows the behaviour of a leaf when placed in water. Use it to answer questions 16 and 17.



16. Why does a leaf behave on water as shown above?

.....

17. What do arrows labelled with letter **X** represent?

.....

18. Give a reason why a person infested with hookworm become anaemic.

.....

19. Give any **one** harmful substance found in tobacco.

.....

20. Mention **one** way of managing floods in the community.

.....

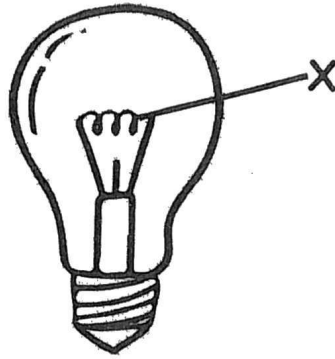
21. Give **one** method of preserving food which does not involve the use of heat.

.....

22. How are plants naturally replaced in the environment?

.....

The diagram below shows an electric bulb. Use it to answer questions 23 and 24.

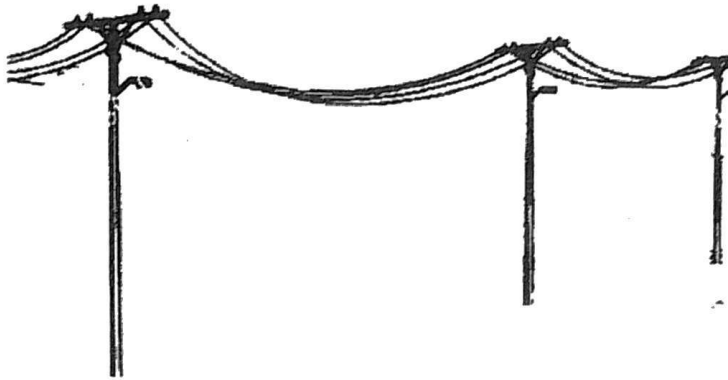


23. Why is part **X** of the bulb coiled?
.....
24. Give **one** form of energy produced by a lighting bulb.
.....
25. Give **one** way how cattle can be used to increase food production.
.....
26. How is the practice of pressing the belly of a near drowned victim important?
.....
27. Besides the childhood killer immunisable diseases, name **one** other disease which can be immunised.
.....
28. Give **one** way of caring for the disabled people at home.
.....
29. What is the main reason for keeping drugs out of children's reach?
.....
30. Name the pigment that enables red blood cells for transporting oxygen around the body.
.....
31. How does cattle keeping help to prevent deficiency diseases at home?
.....
32. Besides the earth, name **one** other example of a natural magnet.
.....
33. How does brushing of teeth promote oral hygiene?
.....
34. Which excuse do school going children give for abusing drugs?
.....
35. Give **one** reason why friction is sometimes called a nuisance force.
.....

36. Identify the main natural source of water in the environment.
-

The diagram below shows the behaviour of electric wires on poles.

Use it to answer questions 37 and 38.



37. Why do electric wires appear as shown above?
-
38. How do electric engineers prevent the effects of contraction when installing?
-
39. Name **one** device used to store sound.
-
40. Which component of soil enables plants to make starch?
-

SECTION B:

41. (a) Mention any **one** source of food in the environment.
-
- (b) How does smoking preserve food?
-
- (c) Give any **two** ways of promoting food hygiene.
- (i)
- (ii).....
42. Given a group of organisms, use them to answer the questions that follow.

fungi, plants, grasshoppers, fox, hen

- (a) Illustrate a food chain using the above organisms clearly showing the flow of energy.

- (b) From the food chain in (a) above; identify the;
- (i) producer
- (ii) decomposer
- (c) What would happen to the population of hens if foxes were removed from the food chain above?

43. (a) Give **one** condition that favours the multiplication of bacteria.
.....
- (b) How is reproduction in bacteria similar to that of amoeba?
.....
- (c) State the use of bacteria found in the pit latrines.
.....
- (d) How are bacteria harmful in the environment?
.....

44. **The diagram below shows a body shape of cattle. Use it to answer the questions that follow.**



- (a) Name the type of cattle with the body shape above.
.....
- (b) Give **one** breed of cattle with the body shape above.
.....
- (c) Mention **one** way of improving on the local breeds of cattle.
.....
- (d) How is cattle used as an energy resource in the environment?
.....
45. (a) Mention any **two** examples of soil pollutants.
.....
- (b) Besides changes of state of matter, give **one** other example of a physical change.
.....

(c) How are chemical changes similar to biological changes?

(d) Give **one** factor that affects evaporation.

46. (a) Name any **two** components of the liquid part of blood.

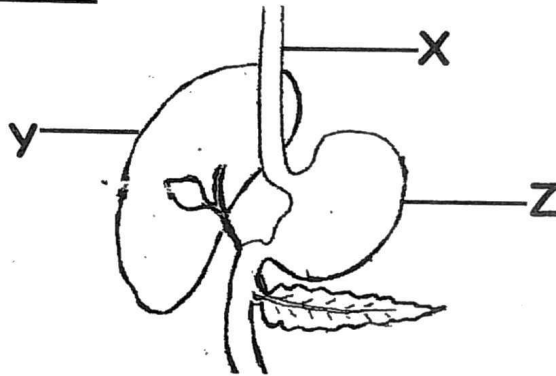
(i)

(ii).....

(b) How is blood clotting important to a person with a cut?

(c) Why is a person who is suffering from malaria advised to eat foods rich in iron?

47. **The diagram below shows a body system. Use it to answer the questions that follow.**



(a) Name parts labelled with the letters **X** and **Y**.

(i) **X**

(ii) **Y**

(b) Give the function of part **Z** during mechanical digestion of food.

(c) Explain the role of part **Y** during digestion of food.

48. (a) Name the method used for purifying water.

(b) Besides making water clean, give **one** other activity where filtration can be used.

(c) Why are people advised to drink boiled water?

(d) State **one** use of water obtained by distillation to health workers.

.....

49. (a) Which component of soil is formed through;

(i) weather.....

(ii) decomposition.....

(b) Identify any **one** factor that affects weathering of rocks.

.....

(c) State **one** role of bacteria in the process of soil formation.

.....

50. The table below shows excretory organs with their products, fill in correctly.

<u>Excretory organ</u>	<u>Excretory products</u>
Kidney	(i) _____
(ii) _____	Bile pigments
Skin	(iii) _____
(iv) _____	Carbon dioxide + water vapour

51. (a) How does heat from the sun reach the earth?

.....

(b) Give one application of heat transfer by;

(i) conduction.....

.....

(ii) convection.....

.....

(c) State **one** disadvantage of heat to people in the environment.

.....

52. (a) Define the term agroforestry.

.....

.....

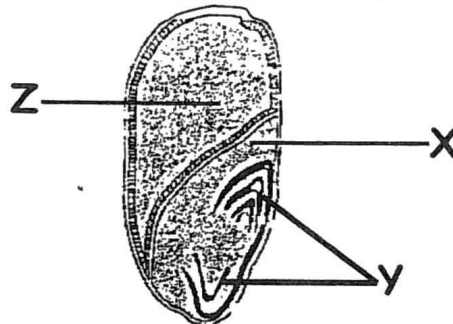
(b) Give any **one** factor considered when selecting trees for agroforestry.

.....

- (c) How do the following benefit from agroforestry?
- (i) crops
- (ii) animals

53. (a) Why is coartem regarded to be an essential drug?
.....
- (b) Mention any **two** common ways used by people to abuse drugs.
(i)
(ii).....
- (c) How does engaging in sports activities prevent a P.7 pupil from drugs of dependency?
.....

54. **The diagrams below shows a maize grain. Use it to answer questions that follow.**



- (a) Name parts labelled with letter **Y** on the diagram above.
.....
- (b) Give the function of part labelled with letter **X** on the diagram above.
.....
- (c) Which part of a bean seed has a similar function as part **Z**?
.....
- (d) For what main reason does the radical come out first during germination?
.....
55. (a) Mention **two** examples of root tuber crops.
(i)
(ii).....
- (b) How is propagation of carrots different from that cassava?
.....
- (c) Give **one** method used to harvest root tubers.
.....

*****End*****