

GREENHILL PRIMARY SCHOOLS

PRE-PLE JOINT MOCK EXAMINATION 2024

(SET II)

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No:

Random No.						Personal No.		

Candidate's Name: ...Guide.....

Stream:Campus.....

Signature:

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

Read the following instructions carefully.

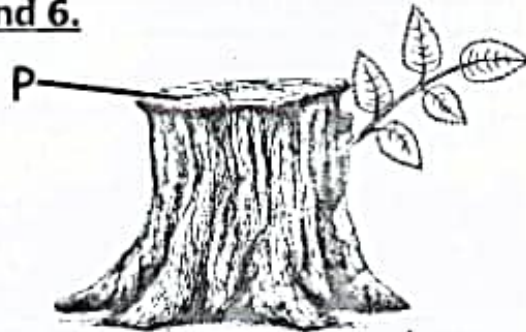
1. This paper consists of two sections: A and B.
2. Section **A** has 40 questions (40 marks).
3. Section **B** has 15 questions (60 marks)
4. Attempt all questions. Answers to both sections must be written in spaces provided in full sentences.
5. All answers must be written in blue or black ballpoint 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		

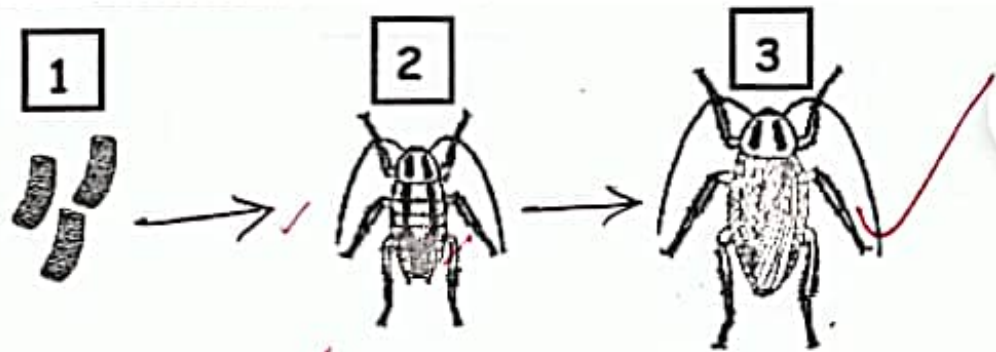
SECTION A:

1. Name any one property of air. - Air can be compressed
Air exerts pressure || Air has weight || Air occupies space ✓
2. Which type of clouds are responsible for thunder?
Cumulonimbus ✓
- * 3. Identify the layer of soil that is formed as a result of continuous weathering of rock particles.
Gravel ✓
4. Mention any one way of caring for wild animals. - conserving their habitats
By feeding them || guarding them against poaching ✓
vaccinating them ✓
The diagram below is a method of harvesting wood. Use it to answer questions 5 and 6.



5. Name the method of harvesting wood shown above.
Coppicing ✓
- * 6. Why is part marked **P** cutting slanting at an angle?
To prevent it from holding H₂O which would cause rotting ✓
7. State the main reason for keeping the body clean, besides body odour.
To prevent skin diseases ✓
8. How are fats and oils useful in the body?
They help the body generate heat || energy ✓
- * 9. Give any one advantage of an Ecosan latrine over a VIP latrine.
The excreta can be used as manure unlike in VIP latrine || Ecosan prevents contamination of water source unlike VIP. ✓
10. Write **ORS** in full.
Oral Rehydration Solution ✓
11. Why is it not necessary to give first aid to a person who has drowned?
The drowned person is already dead ✓
12. Give the importance of immunity to infants.
It protects them against diseases || It reduces the infant mortality rate. ✓

The diagram below shows a vector. Use it to answer questions 13 and 14.



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13. By the help of two arrows complete the above metamorphosis?

14. Name the disease that is spread by a housefly but not by the above vector.

Trachoma

15. Identify the main cause of fainting.

Shortage of oxygen supply to the brain

16. Write any one PHC activity that promotes First Aid and basic health.

Apply cold on a burn, // Tying splints on a fractured bone

17. State any one factor that can lead to alcoholism among primary school children.

Poor social envt

18. Name the body organ that is responsible for sensing the flavour of food.

Tongue

19. Identify the best habitat for plants like papyrus.

Swamp

20. Mention any one use of fungi besides being source of food.

Used in baking // Making medicine // source of income

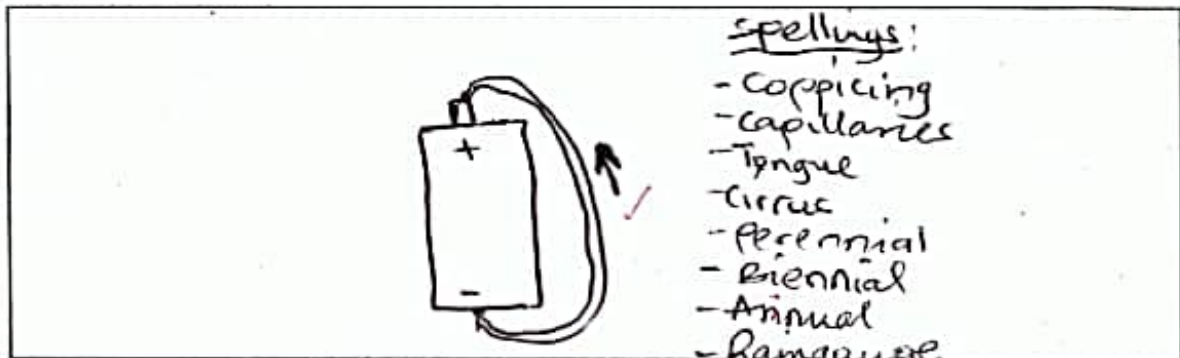
21. Write down the basic characteristic that is common to all invertebrates but absent in all vertebrates.

They have no backbone

* 22. Which form of energy does not require a medium to travel?

Light energy

23. Given a conducting wire and one dry cell. Draw an illustration showing the flow of electrons.



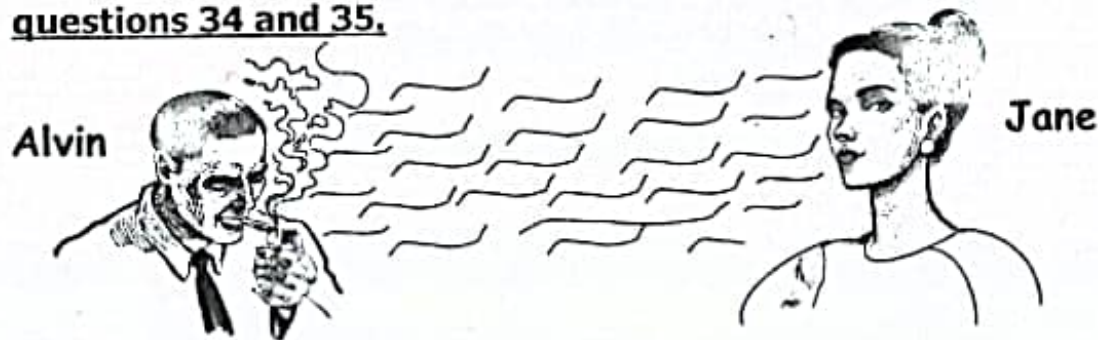
spellings:

- Coppicing
- Capillaries
- Tongue
- Cirrus
- Perennial
- Biennial
- Annual
- Rangauge
- Marcelling
- Heap

Lm

24. How useful is friction force to a butcher?
Dead when sharpening a knife // used when cutting meat.
- * 25. Name the part of a lens camera that has the same function as the Choroid in the human eye.
The black box of the camera.
- * 26. Identify any one cause of floods as a natural change in the environment.
Swamp drainage // blockage of drainage channels
27. Mention any one breed of chicken kept for eggs production.
Ancona // minorca // Brown egg // white leghorn
28. Name any one milk product.
Yoghurt // cheese // butter // ghee
29. Identify any one quality of a good rabbit hutch.
Should be well ventilated // well roofed // raised above the ground.
- * 30. State any one life style that can help one to avoid sexual deviations.
Doing some activities in your free time // counselling & guidance
31. Give any one group of people that are most likely to get HIV/AIDS.
Sex workers // Long distance traveller // Adolescents
32. How is the production of biogas different from that of solar electricity?
Biogas is produced using animal & plant wastes while solar is produced using energy from the sun. ^{- digester} ^{solar panel}
- * 33. Write any one stage in preparing posho as a local dish.
Mingling // Boiling water

The diagram below shows Alvin and Jane smoking. Use it to answer questions 34 and 35.



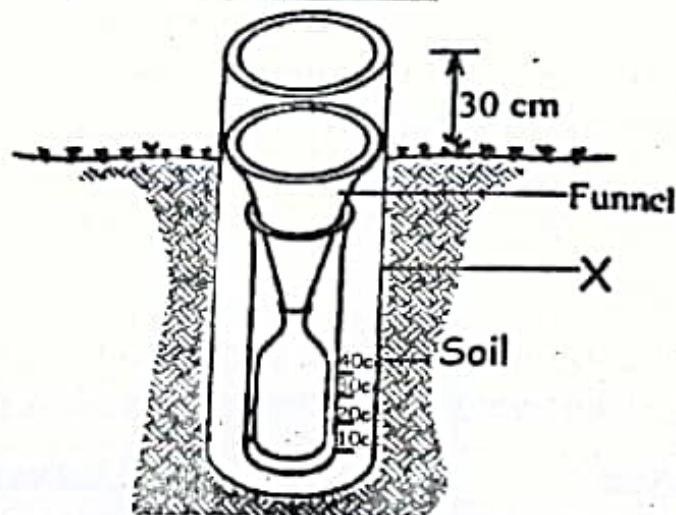
34. Why is Jane also referred to as a smoker?
Jane also inhales smoke // she inhales smoke from Alvin
35. State any one negative effect of the above anti-social behaviour to children in a family besides passive smoking.
It sets a bad example // children may copy the habit
36. Which type of teeth are considered non-deciduous in humans?
Permanent teeth

37. How is the skeletal system useful to the circulatory system?
It helps in production of blood cells. // The ribcage protects.
38. Mention any **one** PIASCY message about reproductive health.
Abstain from sex // virginity is healthy //
39. Identify any of health benefit of plants to people.
Source of food // Herbal medicine
- * 40. Which property of liquids make plumbers to put a cistern at a high level than the bowl?
Pressure in liquids increases with depth.
41. **The table below shows different crops planted and rate of harvesting. Use it to answer the questions that follow correctly.**

Type of crop	Crops	Rate of harvesting
1.	Coffee and cotton	Every season
2.	Rice and beans	Ever after 3-4 months
3.	Onions and garlic	Every after 18 months

- (a) Name the type of crop marked 1, 2 & 3.
- Perennial crops.
 - Annual crops.
 - * ~~Biennial~~ crops.
- (b) Give any **one** characteristic that is common to all crops in type 2.
They mature & are harvest once // Complete the cycle in 1 year
42. In four phases, describe the process of milking cattle to obtain clean milk.
- Clean the place where milking is to be done
 - clean all the milking utensils.
 - wash the udder & teats with clean & warm water
 - Test the milk for mastitis.
 - carry out milking
43. (a) What are sexual deviations?
These are abnormal sexual practices.
- (b) Give any **two** common examples of sexual deviations.
- Bestiality // Homosexuality // Lesbianism
 - Anal sex // fellatio // Masturbation // oral sex
- (c) State any **one** effect of sexual deviations to an individual.
Contraction of STDs // Damage of genital parts

44. The diagram below shows a certain weather instrument. Use it to answer the questions that follow.



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- (a) Name the above instrument.

A rain gauge

- * (b) Identify part marked X.

overflow cylinder // over

- (c) Why is container X;

- (i) buried a few centimetres in the soil?

To prevent it from being carried by

- (ii) placed a few centimetres above the ground?

flowing water. To prevent flowing water from entering.

45. (a) Mention any two examples of soil pollutants. - old batteries

(i) Polythene // Broken bottle // Engine oil

(ii) elastics // metal scrap // Rubber

- (b) State any two effects of harmful materials to soil. - kill soil organisms

(i) They prevent water from entering soil.

(ii) Prevent proper soil aeration // pollute soil

- * 46. (a) What are food taboos?

These are cultural or religious beliefs/practices which forbid people from eating certain food.

- (b) Identify any two examples of religious food taboos.

(i) Muslims are not allowed to eat pork.

(ii) SA are not allowed to eat pork.

Christians do not eat meat on Fridays of the Lent period.

- (c) Give any one danger of food beliefs to the people in a community.

They lead to malnutrition / deficiency disease

47. * (a) During the preparation of ORS, write down the number of spoons of sugar and salt poured in a half litre of safe water.

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(i) 4 spoons of sugar.

(ii) 1/2 spoons of salt.

- (b) Why do we stir after pouring sugar and salt into the safe water?

for the solutes to dissolve in water

- (c) How do people prevent the contamination of ORS during preparation?

- By washing hands before preparing it

- By putting it in clean containers

- By covering it after preparation

3. Match the components of the circulatory system below with their functions in the body.

Component

function

(a) Veins

Transports body materials.

(b) Arteries

Pumps blood around the body.

(c) Heart

Transports blood away from the heart.

(d) Blood

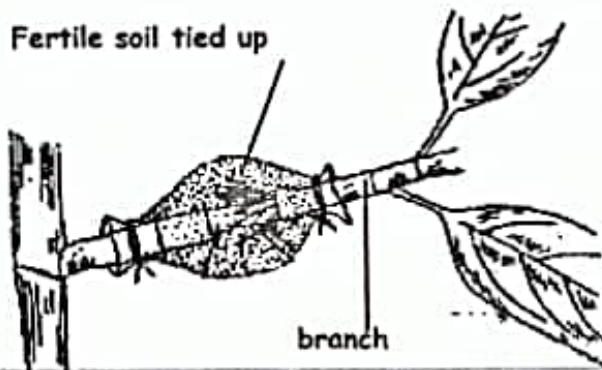
Transports blood toward the heart.

Correct order

- (a) Veins Transport blood towards the heart
- (b) Arteries Transports blood away from the heart
- (c) Heart pumps blood around the body
- (d) Blood Transports body materials

- * 49. The diagram below shows a method of vegetative propagation. Use it to answer questions that follow.

Fertile soil tied up



- (a) Name the vegetative method of propagation shown above.

Layering

- (b) Identify any one example of a plant that can be propagated as above.

Mango // orange // Lemon // Jackfruit
// Fig trees //

- (c) Why do farmers tie fertile soil on the branch as show above?

To allow growth of roots ✓

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- (d) State any one advantage of the above method of propagation.

The plant matures faster // maintains

50. (a) What is matter?

desired ~~x~~ traits from the parent

This is something which occupies space &

- * (b) Mention any two properties of matter.

has mass ✓

(i) Matter occupies space // matter is made of molecules

(ii) Matter has mass // matter exerts pressure

- (c) Apart from gas, name the other state of matter.

Solid // liquid

51. (a) Define the following terms as used in sound.

(i) Pitch This is the highness or lowness of sound ✓

* (ii) Frequency This is the number of vibrations produced per second ✓

(iii) Volume This is the loudness or loudness of sound ✓

- * (b) Identify the factor that determines the volume of sound.

Amplitude // force

52. In four sentences briefly describe the steps taken in ^{cleaning} clearing clothes at homes.

Sort the clothes, soak them in water to dissolve the dirt, then wash them with soap and water, rinse the clothes to remove soapy water, wring them for easy drying and then hang them to dry after which carry out ironing.

- * 53. (a) State the difference between the sky and atmosphere.

Sky is the visible part of the atmosphere while atmosphere is the layer of gases above the sky ✓

(b) Mention any two types of clouds.

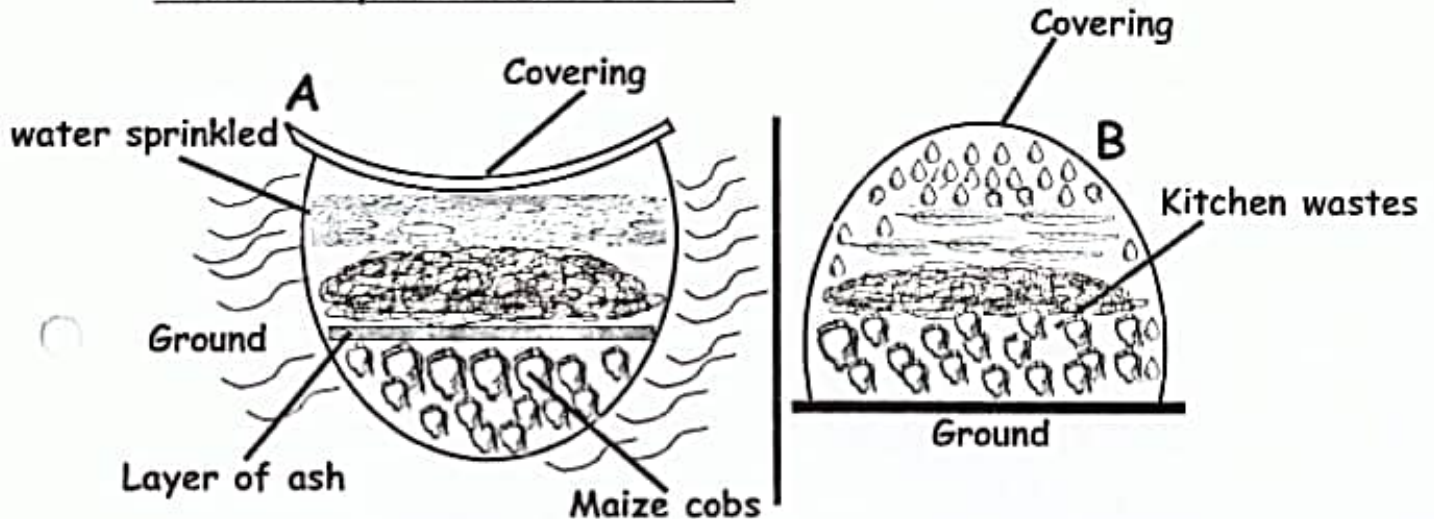
(i) Stratus // Cirrus.....

(ii) Nimbus // Cumulus // Cumulonimbus.....

(c) Identify any one danger of clouds in the environment. -

Cause lightning which strikes people // floods due to too much rain

54. The diagrams below are methods of making natural fertilisers. Use it to answer questions that follow.



(a) Name the type of natural fertilisers produced from the above methods.

Compost manure.....

(b) Identify the method marked B.

Heap method.....

(c) State the reason for the following activities during the preparation of such manure.

(i) Adding ash..... To add mineral salts.....

(ii) Sprinkling water..... To speed up decomposition.....

55. (a) Give any two advantages of breast feeding to a mother.

(i) It delays ovulation // cheap.....

(ii) Saves time // Promotes the health of the mother.....

(b) State any two conditions that may force a mother to carry out bottle feeding.

(i) Hiv Positive // when the mother has mastitis.....

(ii) Breast cancer.....

*****End*****