



HILLSIDE PRIMARY SCHOOL

EXAMINATIONS

2023

INTEGRATED SCIENCE (SET FIVE)

Time Allowed: 2 Hours 15 Minutes

Index No.

Random No.						Personal No.		

Candidate's Name.....Stream.....

Candidate's Signature.....

EMIS No.....

District Name.....

Read the following instructions carefully

1. The paper has **two** sections: **A** and **B**.
Section A has 40 questions and Section B has 15 questions
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. **All** answers must be written using a blue or black ball-point pen or fountain pen. Any work written in pencil other than graphs and diagrams will not be marked
4. Unnecessary changes in work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in boxes indicated: "**For Examiners' Use Only**" and those inside the paper.

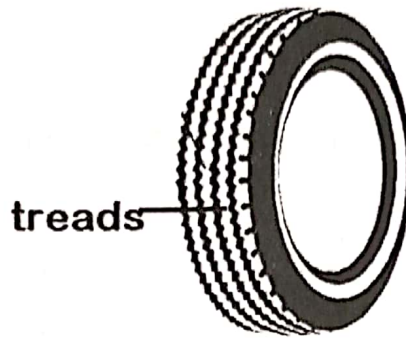
FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' NO
1-10		
11-20		
21-30		
31-40		
41- 43		
44- 46		
47- 49		
50- 52		
53- 55		
TOTAL		

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

1. Name any one group of organisms that help in the soil formation process.
.....
.....
2. Which state of matter have a definite volume but no definite shape?
.....
.....
3. Give one use of a safety pin found in the first aid box.
.....
.....
4. Briefly explain what happens to the mass of wood when wood is burnt to ash.
.....
.....
5. How is the circulatory system important to the excretory system?
.....
.....
6. Why should a VIP latrine should be built 10 meters away from a living house.
.....
.....
7. How is reproduction in conifers different from that in algae?
.....
.....

Use the diagram below to answer question 8



8. Give one reason why treads put on the tyre.

.....
.....

9. Name any one egg laying mammal.

.....
.....

10. State any one way of controlling dental carries.

.....
.....

11. How can a crop farmer prevent land wastage after planting seeds and some fail to germinate?

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.....

12. State any one cause of swarming in bees.

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.....

13. Why is it necessary to use insulators like papers when lifting hot objects?

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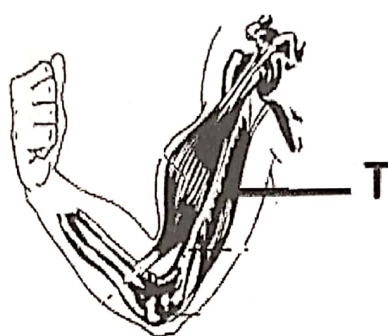
14. Give any one sign of sickness in farm animals.

.....
.....

15. State one common way in which houseflies spread disease germs to humans

.....
.....

The diagram below shows a human arm. Use it to answer question 16.



16. Give any one function of part marked with letter T.

.....
.....

17. Name any one water impurity.

.....
.....

18. How would you separate a mixture of water and ethanol?

.....
.....

19. Which vaccine is given to children at the age of 9 months?

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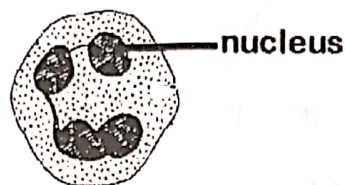
20. Why do electric wires appear tight between poles on a cold day?

.....
.....

21. State one danger of leaving left over food uncovered.

.....
.....

The diagram below shows a blood component. Use it to answer question 22.



22. Name one common sexually transmitted disease that affects the above blood component.

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.....

23. Give any one way of controlling tape worm infestation in humans.

.....
.....

24. Give any one example of a thermometric liquid.

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.....

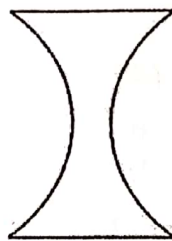
25. In which type of smoking does a person inhale smoke directly from burning tobacco?

.....
.....

26. Why is sorting clothes an important step before washing?

.....
.....

The diagram below shows a concave lens. Use it to answer question



27. State the effect of the above lens on a parallel beam of light.

.....
.....

28. Why are some flowers highly scented at night?

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.....

29. Why is the delivery tube made coiled in cold water during distillation of alcohol?

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30. How are valves found in the heart important during blood circulation?

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.....

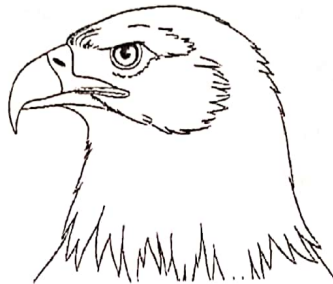
31. Why is it necessary to keep garden tools in a cool dry place?

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.....

32. What type of immunity does a child get through recovering from illness?

.....
.....

The diagram below shows a beak of a bird. Use it to answer question 33 and 34.



33. Name one bird with such a beak.

.....

34. What does a bird with such a beak feed on?

.....
.....

35. State the main cause of goiter in humans.

.....
.....

36. Give any one reason why young girls should avoid teenage pregnancy.

.....
.....

37. Where does a cassava plant obtain its food when its leaves fall off?

.....

38. How is sweating important to the body?

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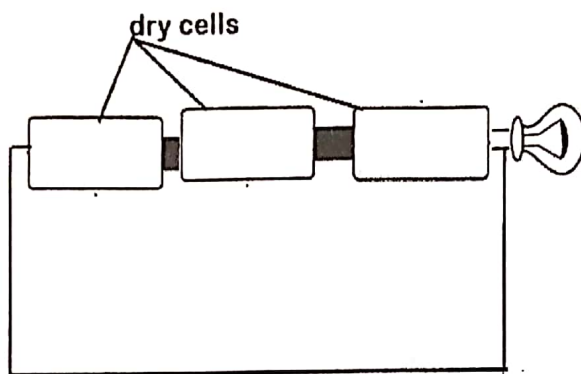
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39. Name any one system of keeping poultry that keeps very few birds on the farm.

.....

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40. Ali connected three dry cells to a bulb as shown below.



Give one reason why the bulb did not produce light as shown in the diagram above.

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.....

SECTION B: 60 MMARKS

Questions 41 to 55 carry four marks each

41. a) Give two electronic methods of storing sound.

- i)
- ii)

b) State one way of increasing the pitch of a guitar.

.....
.....

c) Why can't sound travel through a vacuum?

.....

42. a) Give two energy resources from animals.

- i)
- ii)

b) Name one fuel that is obtained from animals' waste.

.....

c) Why are animals regarded as renewable resources?

.....
.....

43. a) Why do some people keep work type of cattle?

.....

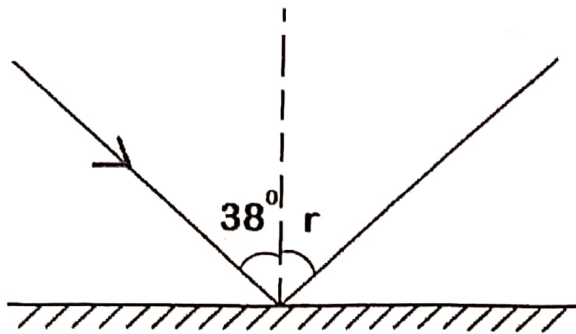
b) State two ways of improving on local breeds of cattle.

- i)
- ii)

c) What is the importance of tail bobbling in cattle management?

.....
.....

44. Study the diagram below and use it to answer questions that follow.



a) Find the size of angle r .

.....

b) Give a reason for your answer in (a) above.

.....

c) Put an arrow head on line OT to complete the above diagram.

.....

d) How is reflection of light important in our daily life?

.....

45. a) Give any two agents of seed dispersal.

i)

ii)

b) State two ways plants benefit from seed dispersal.

i)

ii)

46. a) To which group of invertebrates does a millipede belong?

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b) What type of skeleton does a millipede have?

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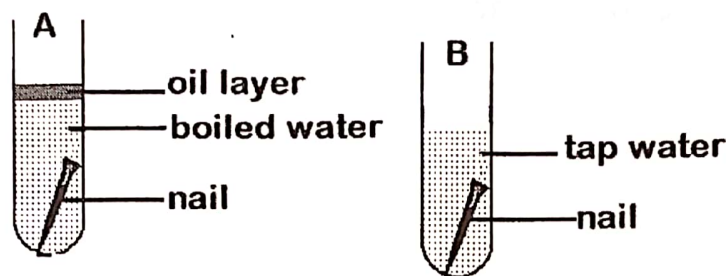
c) Give one characteristic common to all invertebrates.

.....
.....

e) Why do some invertebrates moult?

.....

47. In an experiment, dry iron nails were dipped in boiled water and covered with an oil layer as shown in A. the same nails were dipped in tap water as shown in B. use the diagram below to answer the question that follow.



a) Why did the nails in B rust after some time?

.....
.....

b) State the importance of each of the following in the experiment.

i) oil layer.....

ii) boiled water.....

c) What type of change took place in container marked B above?

.....
.....

48. a) Name two bad health habits that may affect the stomach.

i)

ii)

iii)

b) How does food move through the gullet to reach the stomach?

.....
.....

d) What is the function of enzymes during food digestion?

.....
.....

49. A machine is used to raise a load of 60N through a distance of 10 metres. Using an effort of 20N. If the effort moves through a distance of 40 metres. Calculate the efficiency of the machine.

b) Name one force that affects the efficiency of a machine.

.....

50. a) What type of blood is carried by the renal artery of the kidney?

.....

b) Where does filtration of blood take place in the kidney?

.....

c) Why do we urinate a lot on cold days than on hot days?

.....
.....

51. Match plants in list p with their mode of propagation in B correctly.

A	B
Cassava	using suckers
Carrots	using stem cuttings
Banana	using stem tubers
Irish potato	using seeds

- a) Cassava.....
- b) Carrot.....
- c) Banana.....
- d) Irish potato.....

52. a) Name any two health aspects to consider when carrying out a health survey.

- i)
- ii)

b) In which two ways does a community benefit from carrying out a healthy survey?

- i)
- ii)

53. a) Why is the trachea able to remain open all the time?

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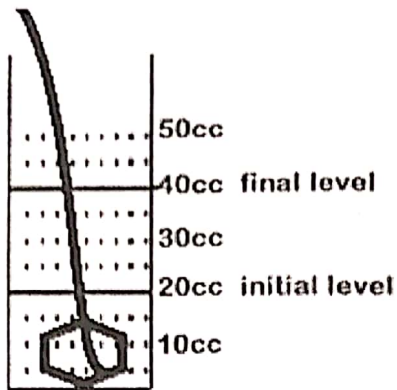
b) Name two lung diseases caused by smoking.

- i)
- ii)

c) How can the respiratory system be kept in good working condition?

.....

54. Study the diagram below and use it to answer questions that follow.



a) What is the above method of finding volume used?

.....

b) Find the volume of the orange in the diagram above.

.....

c) Give one characteristic of sinking objects.

.....

55. a) State any two causes of soil erosion.

i)

ii)

b) How can soil erosion be controlled in our home compound?

.....

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END