



HILLSIDE PRIMARY SCHOOL
BEGINNING OF TERM THREE EXAMINATIONS
2023

INTEGRATED SCIENCE (SET THREE)
Time Allowed: 2 Hours 15 Minutes

Index No.

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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

1. Name the human organ for tasting.
.....
2. Why is brushing teeth a good health practice?
.....
3. Write down one activity a farmer can do in the wet season.
.....
.....
4. How does bush burning cause soil erosion?
.....
.....
5. State any one danger of improper use of a toilet.
.....
6. Point out any one sign of marasmus in infants.
.....
.....
7. Give any activity done to protect cattle from ecto parasites like ticks.
.....
8. How is the function of a fuse similar to that of a switch in an electric circuit?
.....
.....

15. How do plants reduce the amount of carbon dioxide in the atmosphere?

.....

16. Give the type of electricity produced when a plastic pen is rubbed on the hair.

.....

17. In one sentence, write down the meaning of castration.

.....

.....

18. How is the hepatic portal vein useful in the body?

.....

19. Name the factor in a flower which attracts insect pollinators at night.

.....

The diagram below is of a simple machine. Use it to answer question.



20. Use letter **L** and an arrow to show the position of the “load”

21. What type of energy is possessed by a ball placed at a penalty spot?

.....

9. In one word, write the name given to animals without backbones.

.....

The diagram below is of a musical instrument. Use it to answer questions 10 and 11.



10. Name the part marked with letter R.

.....

11. How can Moses change the pitch of the instrument above?

.....

12. What way is a human kidney and the skin similar in function?

.....

.....

13. Why is soil erosion considered as a physical change?

.....

14. Name the type of digestion in which the teeth break down food into small particles.

.....

22. Why does clay soil remain water logged than sandy soil?

.....

23. In the space below, draw a concave lens.

24. How can a farmer make use of cow dung to control deforestation?

.....

25. Name the non-living resource which supports life of a silver fish.

.....

26. Why should garden tools be cleaned every after use?

.....

27. Name the part of the body where respiration takes place.

.....

28. Mention one way a magnet can lose its magnetism.

.....

29. Why is the earth called a natural magnet?

.....

30. Name any one plant that stores its food in the stem.

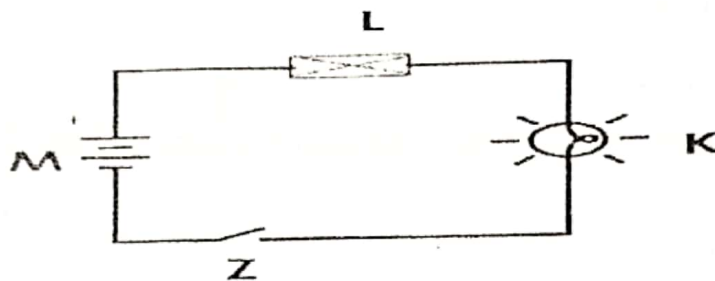
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.....

31. Give one factor that determines the size of an image in a pin hole camera.
-

32. Which component of air is a bi-product of photosynthesis?
-

The diagram below is of a simple complete electric circuit. Use it to answer question 33.

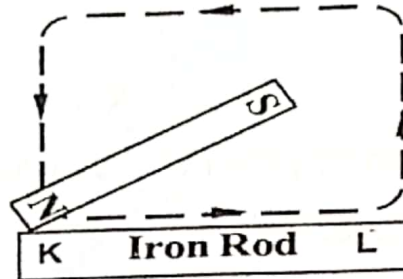


33. Name one form of energy produced at K when circuit is completed.
-

34. Which health measures can be done to a latrine which smells and is full of flies?
-

35. Give one way in which fruits are good in prevention of deficiency disease.
-
-

The diagram below is of a method of magnetization. Use it to answer question number 36 and 37.



36. Identify the method shown above.
.....
37. What pole will be formed at K?
.....
38. Mention one danger of sharing a drug with another patient.
.....
39. Apart from controlling erosion, give one other reason why mulching is important.
.....
.....
40. Name the major way through which AIDS virus is spread.
.....

SECTION B

41. (a) Name one vaccine used to immunize children against tuberculosis.

.....

(b) Give the reason why the measles vaccine is administered at 9 months but not at birth.

.....

.....

(c) Why is immunization an important health activity among children?

.....

.....

(d) State any other way children's immunity is boosted.

.....

42. (a) Give any two methods of making alcohol.

i).....

ii).....

b). State any one scientific value of alcohol in the society.

.....

c). Give any one health effect of alcohol to an individual.

.....

43. a) Give any other state of matter apart from liquid.

.....

b). State two reasons why we give first aid to casualties.

i.

ii.

c). How is a burn different from a scald?

.....

44. The list below shows two groups of invertebrates shown above.

A

Spider

Tick

Mite

Scorpions

B

Housefly

Tsetse fly

Cockroach

Mosquito

45. Identify the groups of arthropods shown above.

i. A

ii. B

b) How is reproduction of a tsetse fly in group B different from the rest?

.....

c) State any one use of the tracheal system to some organisms in A.

.....
.....

46. (a) Give the meaning of the following words as used in the study of sound

(i) Pitch.....

.....

(ii) Frequency.....

.....

(iii) Volume.....

.....

(b). How does a drum produce sound?

.....

47. (a) How do organisms such as mushrooms reproduce?

.....

b). Give one similarity between a bacteria and fungi.

.....

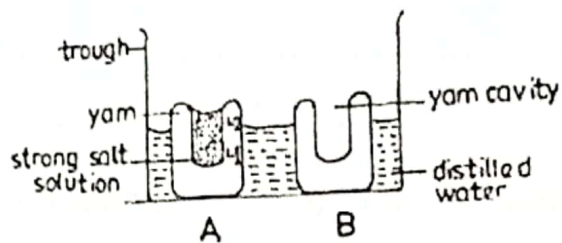
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c). Apart from mushrooms, give any other two examples of fungi.

(i)

(ii)

48. The diagram below shows one of the processes in plants.
Use it to answer the questions that follow.



- a) Identify the process illustrated above.

.....

- b) What does the peeled yam represent?

.....

- c) How important is the above illustrated process to plants?

.....

- d) Define the term transpiration.

.....

.....

49. a) Give any two disease vectors whose life cycle passes through water.

(i)

(ii)

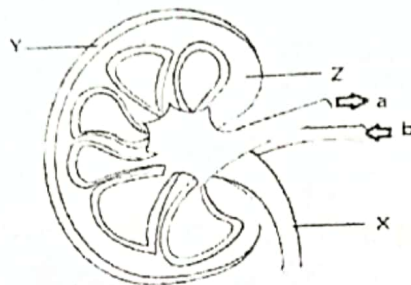
b). State any two diseases caused by poor sanitation in an area.

- (i)
- (ii)

50. The table below is about. Use it to answer question 48.

FOOD VALUE	SOURCE	DEFICIENCY DISEASE
.....	Beans	Kwashiorkor
Vitamin C	Oranges
Carbohydrates	Marasmus
.....	Carrots	Night blindness

51. The diagram below is of kidney. Use it to answer the questions that follow.



a). Name the parts labelled:

X

Y.....

b) Give the function of part labelled X.

.....

c) Name the important process that takes place in part marked Z.

.....

52. a) Animals on a farm should be numbered for easy identification. Mention any two ways this is done.

(i)

(ii).....

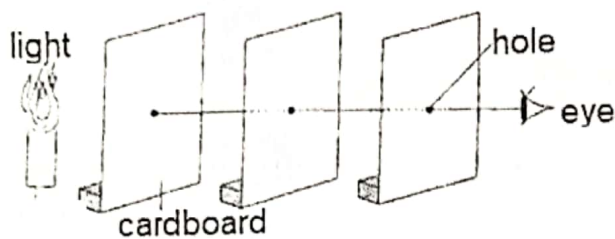
b). Why should animals be castrated?

.....

c). State any one way how castration is done.

.....

53. The diagram below is of an experiment about light.



a) Why was the person able to see light from the burning candle?

.....
.....

b). What does the above experiment prove about light?

.....
.....

c). State two similarities between an eye and a camera

i)

ii)

54. a) Which germ causes AIDS?

.....

b). Why is abstinence considered the best method for controlling AIDS among youth?

.....

c). Apart from AIDS, give two other sexually transmitted diseases.

i).....

ii).....

55. a) Name the type of blood found in the following blood vessels.

(i) Vena cava.....

(ii) Pulmonary vein.....

b). How are the valves useful in the human heart?

.....

c). Name the component of blood that carries oxygen around the body.

.....

.....

END