

SEETA JUNIOR SCHOOL

PRINCIPAL'S PRE- PLE 2024

INTERGRATED SCIENCE

Time Allowed: 2Hrs: 30 Mins

Index No.

EMIS No.						Personal No.		

Candidates Name:

Candidates Signature:

Read the following Instructions carefully

1. Do not write your school or district name anywhere on this paper
2. The paper has two sections: A and B
3. SECTION A has 40 questions (40 marks) Section B has 15 questions (60 Marks)
4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball Point pen or ink. Any work written in pencil will not be marked.
6. Unnecessary changes in your work and handwriting that Cannot be read easily may lead to loss of marks.
7. Do not fill anything in the table indicated;
"FOR EXAMINER'S USE ONLY" and boxes inside the Question Paper.

FOR EXAMINER'S 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		

Questions 1 – 40 carry one mark each

1. Name the human body organ that stores information.

2. How is toothpaste important in the promotion of dental hygiene?

3. State any one importance of correct posture.

4. Give one reason why it is advisable to include leguminous crops in a crop rotation cycle.

5. Mention any one piece of information that should be considered before taking a drug.

The diagram shows a vegetable root crop that is common in our environment. Use it to answer questions 6 and 7.



6. Why is the crop regarded as a root crop?

7. How do farmers propagate this root crop?

8. Why is water not used to stop fires started by petrol?

9. Give a reason why ash is added to a compost pit when making compost manure.

10. Name one fungal disease of the reproductive system.

11. Give a role played by plants in the rain cycle.

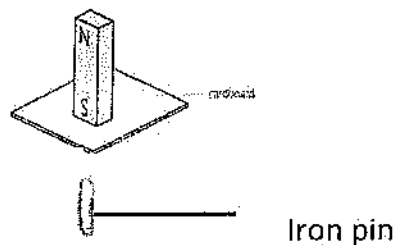
12. Name the sheet of muscle that separates the respiratory system from the digestive system.

13. How can sound stored in tonic solfa be produced?

14. State how the function of the ovary of a flower is similar to the testes of male animals.

15. In which way is blubber useful to sea mammals?

The diagram shows a property of magnets. Use it to answer questions 16 and 17.



16. Identify the properties of magnets shown above.

17. State one-way magnets are useful in a kitchen.

18. How is the use of a strip cup different from that of a lactometer?

19. Give one example of a commonly abused drug in our community.

20. Which vector spreads elephantiasis to people?

21. How is the left side of the heart adapted to its function?

22. Apart from being vertebrates, state any other way birds are similar to fish.

23. Mention the deficiency diseases that affects the circulatory system.

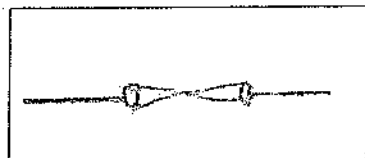
24. An object of mass 150gm was lowered into a bowl of water and it displaced water which filled a cup of 30cm^3 . Calculate the density of the object.

25. Give any one special characteristic of expired air.

26. Write down any one part which makes up the pistil of a flower.

The diagram below shows a symbol of the components of a simple circuit. Use it to answer questions 27 and 28.

27. Name the symbol shown in the diagram shown below.



28. Give the importance of this part of a circuit.

29. State the importance of family planning to a couple.

30. Give one use of an axe as a wedge at home.

31. How does malaria affect the circulatory system?

32. State one condition under which a person is considered to be vulnerable.

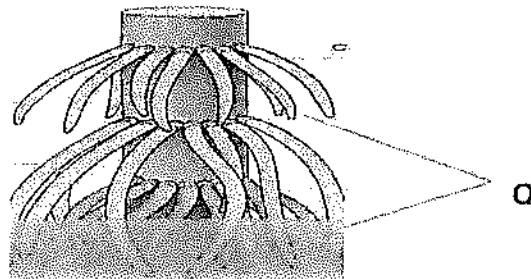
33. Name the structures that enable blood to flow in one direction.

34. How does uncontrolled bush burning affect the environment?

35. Give any one first aid measure for near drowning.

36. Why is a shadow not formed when light rays strike a clear glass wall?

The diagram shows a type of root in plants. Use it to answer questions 37 and 38.



37. Name any one common plant that develops the kind of roots shown above.

38. Give a reason why such plants develop the above roots in Q 37.

39. State one way of keeping rabbits on a farm free of diseases.

40. How is the use of ash important in an ECOSAN latrine?

SECTION B (60 MARKS)

Questions 41 – 55 carry four marks each.

41.(a) Give any two ways humans make use of bacteria.

(i) _____

(ii) _____

(b) Write down any two dangers of fungi in the environment to people.

(i) _____

(ii) _____

42.(a) Which part of a vacuum flask prevents heat gain or loss by convection?

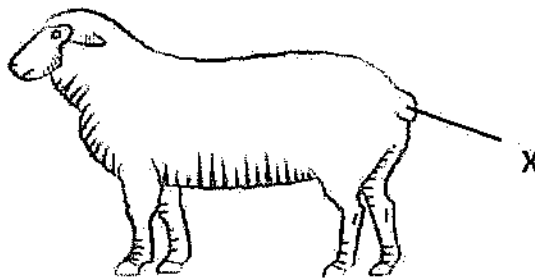
(b) State the importance of a vacuum seal on a thermos flask.

(c) Give any two uses of a flask at home.

(i) _____

(ii) _____

43. The diagram shows a common practice on a livestock farm. Use it to answer the following questions.



(a) Identify the farm practice shown above.

(b) Name one group of farm animals on which practice X cannot be applied.

(c) Mention any two reasons for carrying out the above practice.

(i) _____

(ii) _____

44.(a) Name two important pieces of information useful to a parent on the child's health card.

(i) _____

(ii) _____

(b) How does a school make use of a child's health card?

(c) Which piece of information helps a doctor to prescribe drugs to a sick child from the health card?

45. The table below shows common groups of plants in A and their examples in B.

A	B
Vegetables	Carrots
Stem tuber	Garlic
Root tubers	Spinach
Bulb	Cocoyam

- i. Vegetables _____
- ii. Stem tuber _____
- iii. Root tubers _____
- iv. Bulb _____

46(a) Mention one accident caused by the following;

- i. Walking through the bush

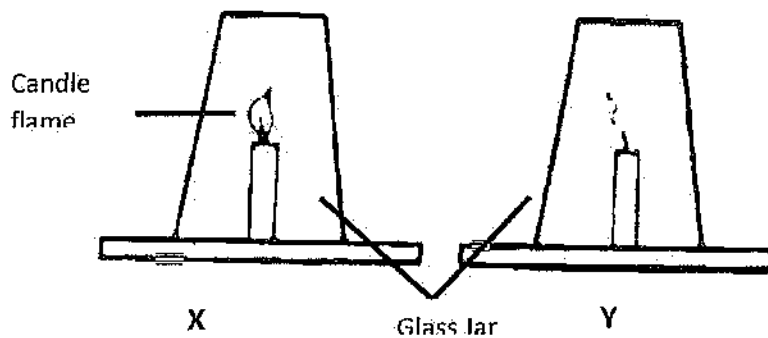
ii. Talking with food in the mouth

(b) State two ways of preventing scalds at home.

1)

2)

47. The diagram shows an experiment with air. Use it to answer the following questions.



(a) Why did the candle flame continue burning even after covering it with a glass jar?

(b) Name the gas found in the glass jar marked Y.

(c) Give any two uses of the gas produced in Y to people.

(i)

(ii)

48 (a) What is the effect of change in the speed of light?

(b) State any two results of refraction of light.

(i) _____

(ii) _____

(d) Give one disadvantage of refraction of light.

49 (a) Apart from protection, give one role of worker bees in a hive.

(b) Why are honey bees referred to as social insects?

(c) Name one enemy of bees in the environment.

(d) State one activity a bee farmer can carry out to prevent swarming of the bee colony in an apiary.

50. The table shows classes of food, sources, and their values in the body.

Class	Source	Use in the body
Roughages	Vegetables and fruits	(a) _____
(b) _____	Milk	Growth and repair,
Mineral salts	(c) _____	formation of strong bones and teeth
Vitamins	(d) _____	Good health

51. (a) Mention the part of the body of the mammals where the following processes of reproduction take place.

i. Fertilization

ii. Ovulation

(b) State the effect of fertilization in mammals.

(c) Give one way of caring for the reproductive system in human beings.

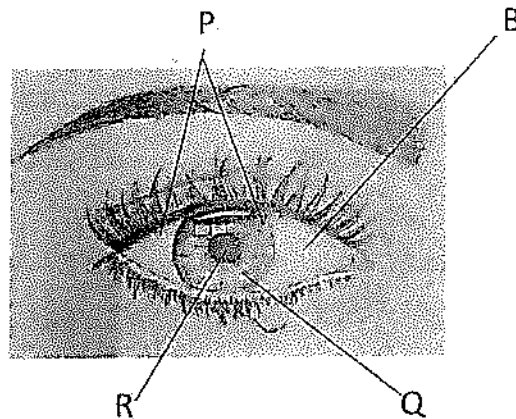
52. (a) What causes dysentery in children?

(b) Name the vaccine given to children against diarrhea.

(c) Why is the DPT vaccine referred to as a triple vaccine?

(d) Identify the Immunisable disease that causes the swelling of the neck and difficulty in breathing.

53. The diagram shows the external parts of the human eye. Use it to answer the questions that follow.



(a) Name parts P and Q

P _____

Q _____

(b) Give the function of part marked Q.

(c) State any one defect of the eye.

54. (a) Mention any one step involved in the preparation of a local dish of beans, apart from sorting.

(b) Which food value is obtained from eating beans?

(c) State one local way of preserving uncooked food.

(d) What is a staple food?

55. (a) State the reason for carrying out a population survey.

(b) Mention one activity to address the health concerns of a community.

(c) Give one example of a sexual deviation.

(d) State one way of avoiding sexual deviations.

END