



## BLESSED HOPE CHAMPIONS PRIMARY SCHOOL BULAMU

### PRIMARY SIX SPECIAL PAPER 2024

#### INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index number

| Random No. |  |  |  |  |  | Personal No. |  |  |
|------------|--|--|--|--|--|--------------|--|--|
|            |  |  |  |  |  |              |  |  |

Candidate's Name: .....

Candidate's signature: .....

School Random Number: .....

District ID: .....

Read the following instructions carefully:

1. Do not write your school or district name anywhere on this paper.
2. This paper has two sections A and B. section A has 40 questions and section B has 15 questions  
Section A carry 40 marks and section B carry 60 marks
3. Answer all questions. All answers to both sections A and B MUST be written in the spaces provided.
4. All answers MUST be written in a BLUE or BLACK ball point pen or ink.  
Any work written in pencil other than graphs and diagrams will not be marked
5. Unnecessary changes in your work and poor handwriting or letters and numbers that cannot easily be read may lead to loss of marks.
6. Do not fill any thing in the boxes indicated : " for examiners' use only" and those inside the question paper.

| For Examiners' Use Only |       |           |
|-------------------------|-------|-----------|
| Qn. NO.                 | MARKS | EXR's No. |
| 1-10                    |       |           |
| 11-20                   |       |           |
| 21-30                   |       |           |
| 31-40                   |       |           |
| 41-43                   |       |           |
| 44-46                   |       |           |
| 47-49                   |       |           |
| 50-52                   |       |           |
| 53-55                   |       |           |
| TOTAL                   |       |           |

Turn Over

1. Why are birds streamlined?  
\_\_\_\_\_
2. Name any one example of physical change.  
\_\_\_\_\_
3. Which biological process helps in rain formation?  
\_\_\_\_\_
4. Why a bat is called a mammal yet it flies?  
\_\_\_\_\_
5. Apart from the Irish potato, give one example of a stem tuber.  
\_\_\_\_\_
6. Why is blubber useful to cetaceans?  
\_\_\_\_\_
7. Give one example of a sea mammal.  
\_\_\_\_\_
8. Which characteristics of living things make them able to increase in number?  
\_\_\_\_\_
9. How are scavenger birds useful to the environment?  
\_\_\_\_\_
10. Give one example of a chiroptera.  
\_\_\_\_\_
11. What are mammals?  
\_\_\_\_\_
12. Which type of feathers keep bird's body warm?  
\_\_\_\_\_
13. What do tapeworms feed on in the body?  
\_\_\_\_\_
14. Identify the group of mammals which reproduce in the same way as reptiles.  
\_\_\_\_\_
15. Name the special poison produced by the poisonous snakes.  
\_\_\_\_\_
16. Give the group of mammals which destroy farmer's crops.  
\_\_\_\_\_
17. How is a crop useful to a bird?  
\_\_\_\_\_
18. What name is given to the small stones found in the gizzard?  
\_\_\_\_\_



19. Mention any one example of a monotrem

20. Why is an ostrich unable to fly?

21. How does a hook cause anaemia?

22. Mention one type of a rabbit hatch.

23. What are birds of prey?

24. Mention one characteristic of physical change.

25. Give one example of birds that promote sanitation in the community.

26. State the role of a forked tongue to the snake.

27. What are stem tubers?

28. How is burning similar to rusting?

29. Mention one example of a wadding bird.

30. How is a sun bird adapted to its mode of sucking nectar?

31. Identify the physical process in which a liquid turns into a gas.

32. Which type of mosquito spreads yellow fever?

33. How is a germ different from a pest?

34. How does mulching control soil erosion?

35. State two applications of radiation in the environment.

36. How is the nictating membrane useful to a bird?

37. Why is a paper weightless when placed on water?

38. State one application of evaporation in the environment.

39. What is soil erosion?

40. Mention one importance of a hornbill in the environment.

### **SECTION B**

41. a) What is apiculture?

b) State one cause of swarming in bees.

c) How are bees useful to:

i. i) flowers

ii. ii) people

42. a) Give one reason why movement is important to animals.

b) Which body organs perform the following functions in man?

i) Removing sweat



ii) Removing impurities from blood

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c) Name one way a P.5 child can keep his/her body organs in a good (healthy) condition.

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43. a) Mention two ways in which bacteria can be useful to man.

i)

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ii)

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b) Suggest any two dangers of bacterial to man.

i)

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ii)

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44. a) Name any two types of thermometers.

i)

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ii)

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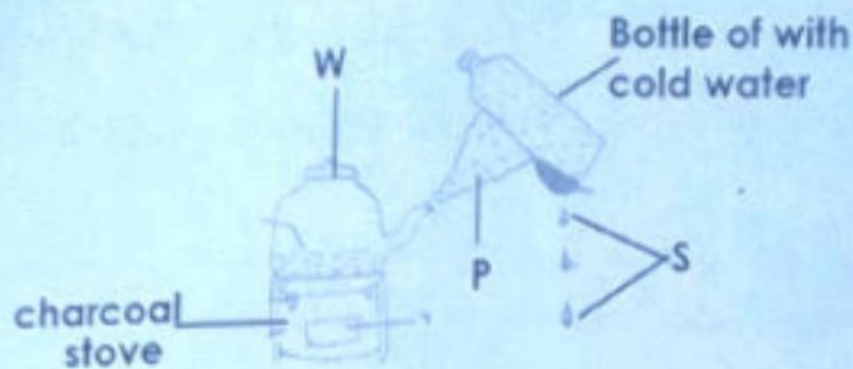
b) Other than mercury, name another liquid used in thermometers.

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c) Give one advantage of using mercury in thermometers.

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45. The diagram below shows an experiment carried out by Gabula Charles of P.5.



a) What name is given to substance P?

b) By what process is substance S formed?

c) Identify one process in the environment similar to that shown.

d) What material is suitable for making part W?

46.a) Air is a mixture of gases. Mention two components of air.

i) \_\_\_\_\_

ii) \_\_\_\_\_

b) What name is given to moving air?

c) Give one danger of moving air to man.

d) What element of air is used by green plants to make starch?

47. Match items in A to those in B properly.

**A**

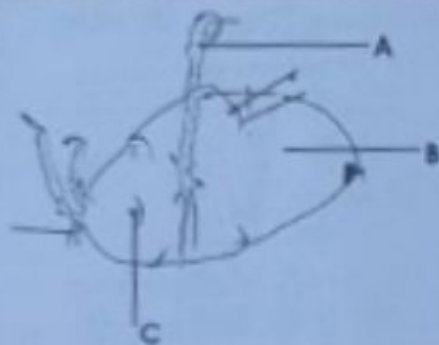
Lack of vitamin A  
Lack of Iron.  
Lack of proteins  
Lack of carbohydrates

**B**

Kwashiorkor  
Marasmus  
Night blindness  
Anaemia

- a) Lack of vitamin A \_\_\_\_\_
- b) Lack of iron \_\_\_\_\_
- c) Lack of proteins \_\_\_\_\_
- d) Lack of carbohydrates \_\_\_\_\_

48. The diagram below shows a stem tuber.



a) Name parts labeled A and B

- i) A \_\_\_\_\_
- ii) B \_\_\_\_\_

b) How are Irish potatoes propagated?

c) What food value is directly got from eating Irish potatoes?

49. a) What is heat?



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b) Name one natural source of heat.

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c) By what process does heat travel through:

i) Gases

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ii) Solids

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50. a) Name the type of immunity got after recovering from a disease.

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b) Name one disease whose vaccine is given at birth.

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c) Which immunisable disease affects the skeleton?

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d) Identify the body which organizes and carries out immunization programs in Uganda?

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51. a) What is poultry?

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b) Give one type of chicken.

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c) Write down two reasons why people keep domestic birds.

i)

ii)

52. a) Give one example of each of the following types of changes.

i) Physical change

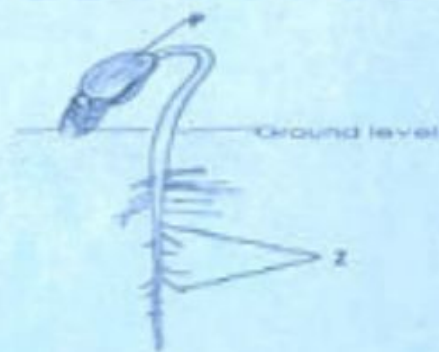
ii) Biological change

iii) Chemical change

b) Write one characteristic of a chemical change.

53. a) What is germination?

b) Identify the type of germination shown below:



c) Name part labeled P.

d) Give the use of part Z to a germinating seed.

54. a) What are root crops.

b) Mention any two examples of root crop.

i) \_\_\_\_\_

ii) \_\_\_\_\_

c) Give one reason why, root crops are sprayed.

55. James mixed the following sugar, salt and water and stirred.

a) What do you think happened to the sugar and salt after some time?

b) What did the following act as?

i) Water

j) ii) sugar and salt

c) Mention one method of separating mixtures.