

**SUMMIT NURSERY AND**  
**PRIMARY SCHOOLS**  
**EXAMINATIONS 2022**  
**PRIMARY SIX**  
**INTEGRATED SCIENCE**

DURATION : 2 hours 15 minutes

**Name:** \_\_\_\_\_

Read the following instructions carefully.

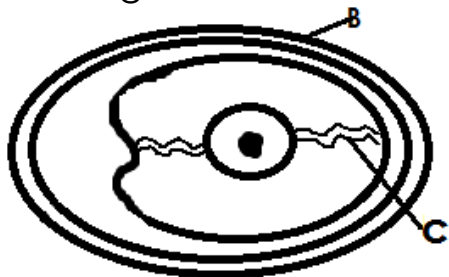
1. This paper has **two** sections 'A' and 'B'
2. Attempt **ALL** questions
3. Answers **MUST** be written in a black or blue ball-point pen or ink.
4. Unnecessary alteration of work will lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of

FOR EXAMINERS' USE ONLY		
QN. NO.	MARKS	TOTAL MARKS
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 50		
51 – 55		
TOTAL		

## SECTION A

1. Name the part of a plant which helps it to make its food.  
\_\_\_\_\_
2. To which group of food crops do cowpeas belong?  
\_\_\_\_\_
3. How is respiration similar to burning?  
\_\_\_\_\_
4. What is the function of the heart in the body?  
\_\_\_\_\_
5. How do we prevent ourselves from getting Covid19?  
\_\_\_\_\_
6. Why do we boil drinking water?  
\_\_\_\_\_
7. Give any one use of alcohol to people.  
\_\_\_\_\_
8. How does heat from the sun reach the earth?  
\_\_\_\_\_
9. How is measles vaccine administered to children?  
\_\_\_\_\_
10. Name the vector that carries the chlamydia germ?  
\_\_\_\_\_
11. Give any **one** use of roots to a plant.  
\_\_\_\_\_
12. Give any **one** way of keeping latrines clean.  
\_\_\_\_\_
13. Name any **one** solute used in the making of oral rehydration solution.  
\_\_\_\_\_
14. Apart from causing self-neglect, state any other effect of smoking to an individual.  
\_\_\_\_\_

The diagram below shows an egg. Use it to answer questions 15, 16 and 17.



15. Name the part labelled B.  
\_\_\_\_\_
16. What is the function of part marked C?  
\_\_\_\_\_
17. What type of food value is obtained from eating an egg?  
\_\_\_\_\_
18. State the importance of carbon dioxide to beverage producers?  
\_\_\_\_\_

19. What first aid is given to a person with a burn?

20. Mention any **one** kingdom of living things.

21. What instrument is used to measure the speed of wind?

22. State any **one** use of electricity at home.

23. Name any **one** example of a flying mammal.

24. State any **one** way of maintain the proper working of the circulatory system?

25. Give any **one** use of trees in a compound.

26. Name the part of an insect that balances it during flight.

Below is a diagram of a garden tool. Use it to answer questions 27 and 28.



27. Name the garden tool shown above.

28. How important is the above garden tool to a farmer?

29. Which germ causes malaria?

30. What is the use of a rack (plate stand) at home?

31. Apart from having dull colours, state any other characteristic of wind pollinated flowers.

32. Name any **one** product obtained from cattle.

33. Mention any **one** useful fungi to man.

34. Draw a white blood cell in the space below.

35. How important are earthworms to the soil?

36. Give any **one** way you can help your parents at home.

37. Give any **one** example of a mammal that belongs under rodents.

38. Mention any **one** example of a monocotyledonous plant.

39. Which type of soil retains water for a long time?

40. Give any **one** example of an animal fibre.

### SECTION B

41. a) Mention **two** products from bees.

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

b) State any **one** reason why bees swarm.

c) Why does a worker bee die after stinging its enemy?

42. a) Write down any **two** causes of dehydration.

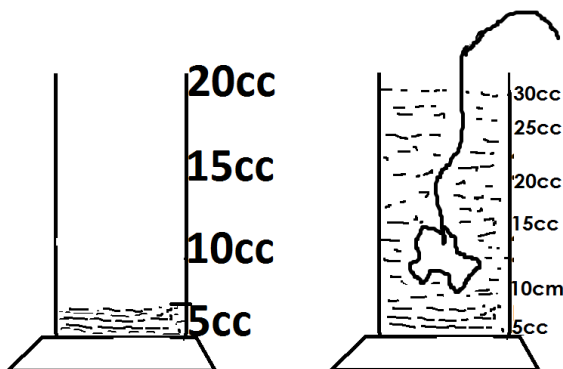
i) \_\_\_\_\_

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

b) Name any **one** sign of dehydration.

c) Why should a dehydrated person be given plenty of fluids?

43. Below is an experiment carried out by a P.5 class. Use it to answer questions that follow.



a) Name the method used above.

b) When is such a method used?

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c) What is the volume of the object?

44. a) Mention **one** example of a plant propagated by the following.

i) Suckers: \_\_\_\_\_

ii) Stem cutting: \_\_\_\_\_

iii) Stem tuber: \_\_\_\_\_

b) In which part of an onion is food stored?

\_\_\_\_\_

45. a) Name any **one** material used for mulching gardens.

b) State any **two** disadvantages of mulching gardens.

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

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

c) How does mulching help to conserve (keep) soil moisture?

\_\_\_\_\_

46. a) What are resources?

\_\_\_\_\_

\_\_\_\_\_

b) Give any **one** example of each of the following;

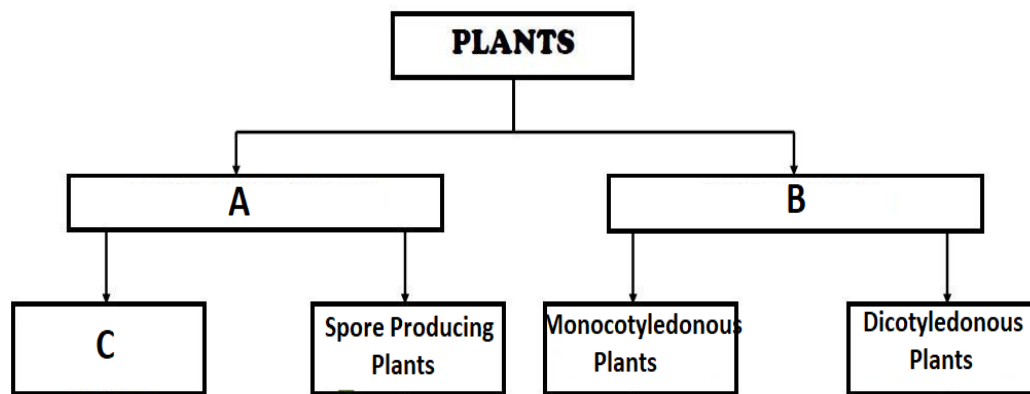
i) Renewable resource. \_\_\_\_\_

ii) Non-renewable resource. \_\_\_\_\_

c) State any **one** way of conserving non-renewable resources.

\_\_\_\_\_

47. The table below shows classification of plants. Study it and answer the questions that follow



a) Name the group of plants shown by the following letters;

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

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

iii) C \_\_\_\_\_

b) Give any one plant that belongs to the box labelled C.

\_\_\_\_\_

48. a) Give any **two** characteristics of insects.

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

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

b) State any **one** difference between insects and arachnids.

\_\_\_\_\_

c) Identify the arachnid which is a parasite in cattle.

\_\_\_\_\_

49. a) How does heat travel through:

i) Water: \_\_\_\_\_

ii) Solids: \_\_\_\_\_

b) How does the sun heat the air around us?

\_\_\_\_\_

c) State any **one** effect of expansion in rails.

\_\_\_\_\_

50. In the table below, part **A** shows terms used to describe sound and part **B** has the meanings of the terms

Part A	Part B
Volume	Number of vibrations per second
Pitch	Reflected sound
Frequency	Loudness or softness of sound
Echo	Highness or lowness of sound

Use the meanings in part B of the table to match the terms below.

a) Volume. \_\_\_\_\_

b) Pitch. \_\_\_\_\_

c) Frequency. \_\_\_\_\_

d) Echo. \_\_\_\_\_

51. (a) Give any **two** reasons why animals move from one place to another.

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

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

(b) How do the following animals move?

(i) Reptiles \_\_\_\_\_

(ii) Amphibians \_\_\_\_\_

52. Which part of fish is responsible for the following:

a) Smelling : \_\_\_\_\_

b) Pick sound waves : \_\_\_\_\_

c) Protecting the skin : \_\_\_\_\_

d) Used for breathing : \_\_\_\_\_

53. a) How do bacteria reproduce?

b) State any **one** danger of bacteria in people.

c) Name the bacteria found in root nodules of legumes.

d) Identify any **one** example of a bacterial disease in people.

54. a) Apart from transpiration, mention the other process which takes place in leaves of a growing plant.

b) Mention the gas given off by plants during the process you have mentioned in 54 (a) above.

c) Give any **two** uses of leaves to people.

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

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

55. Below is a list of plants. Use it to answer the following questions.

liverworts, cypress, mango plants, fir
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a) Which of the plants above reproduces by means of spores?

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b) Give a reason why you would group cypress and fir together.

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c) Write down **one** difference between liverworts and fir.

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d) Name **one** fungi which reproduces in the same way like liverworts.

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E N D