



# THE PRIME EXAMINATIONS 2023

## PRIMARY SIX END OF TERM I

### INTEGRATED SCIENCE (Abridged Curriculum)

Time allocated 2 hours 15 minutes



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#### READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has **two** sections: **A** and **B**. Section **A** has **40** questions (**40 Marks**) and Section **B** has **15** questions. (**60 Marks**)
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 ink. Any work written in pencil will **not** be marked.
4. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
5. Do not fill anything in the table indicated  
"FOR EXAMINERS' USE ONLY"

#### FOR EXAMINERS' USE ONLY

QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

APPROVED:



Consultant

Integrated Science Department (PEC)

#### PUBLISHERS OF:-

THE PRIME, SCHEMING FRAMEWORKS, PUPIL'S WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES, LEARNING GAMES, REVISION BOOKS, PLE ANALYSIS REPORTS AND MANY MORE.

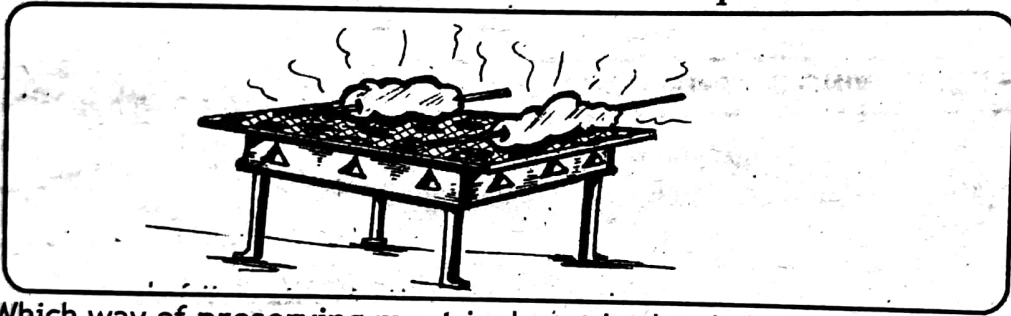
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Turn Over

**Section A (40 Marks)**

1. Name the *component of air* that supports life.  
\_\_\_\_\_
2. In which way are scavenger birds important in the environment?  
\_\_\_\_\_
3. How do yeast reproduce?  
\_\_\_\_\_
4. What advise would you give to a mother whose child suffers from anaemia?  
\_\_\_\_\_
5. Name the *type of germination* found in monocotyledonous plants.  
\_\_\_\_\_
6. Why does a fish die shortly when removed from water?  
\_\_\_\_\_

Study the diagram below and use it to answer questions 7 and 8.



7. Which way of preserving meat is shown in the diagram above?  
\_\_\_\_\_
8. Name the *method of heat* transfer shown in the diagram above.  
\_\_\_\_\_
9. Why are mushrooms unable to make their own food?  
\_\_\_\_\_
10. Write one agent of pollination.  
\_\_\_\_\_
11. What feature enables birds to reduce friction during flight?  
\_\_\_\_\_
12. Give the importance of quill feathers to a bird.  
\_\_\_\_\_
13. In which one way is the sun useful in the rain cycle?  
\_\_\_\_\_  
\_\_\_\_\_



14. Give one way of maintaining the soil fertility.
15. Name the part of the *root system* that absorbs water and mineral salts from the soil.
16. Mention any one *fungal disease* that affects the human skin?

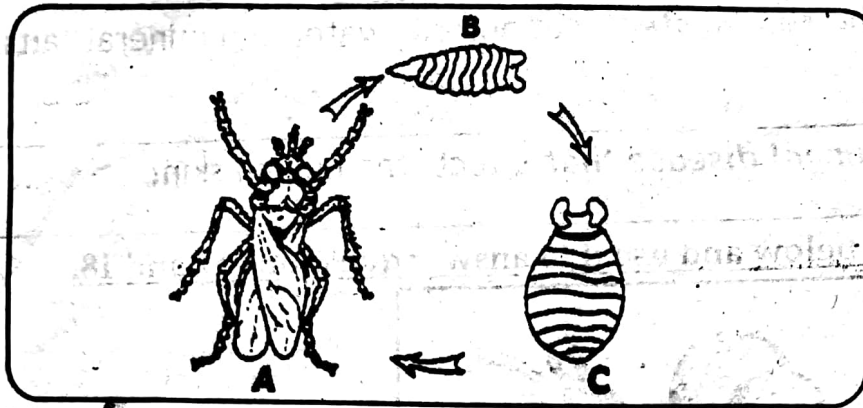
**Study the diagram below and use it to answer questions 17 and 18.**



17. To which group of invertebrates would you group the animal in the diagram above?
18. How can the above animal protect itself from enemies?
19. Write one example of wood fuel found in the environment.
20. How are nitrifying bacteria important to farmers?
21. Which element of PHC is promoted by taking babies for a measles vaccine?
22. In which way are perches important in a poultry house?
23. How is the breathing in reptiles similar to that of birds?
24. Name the bacterial disease spread through drinking unboiled milk.
25. Give the importance of water during seed germination.
26. How can a *P.6 child* prevent his/her self from having a bad body smell?

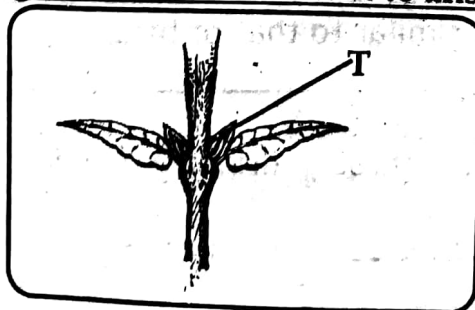
7. Apart from a mushroom, give one other example of fungi.

**Study the lifecycle below and use it to answer questions 28 and 29.**



28. Name the *type of a lifecycle* shown in the diagram above.
29. Which *disease* is spread by the vector shown in the lifecycle above?
30. State one characteristic of vertebrates.
31. Name the *food value* got from eating groundnuts.
32. Which property of air enables a person to inflate air inside a balloon?
33. Give one type of bacteria according to shape.
34. Mention one way of keeping our school compound clean.
35. How do amphibians reproduce?
36. Of what importance is the sun to Ricky a fisherman at Kasensero?

**Study the diagram below and use it to answer questions 37 and 38.**



37. Name the part marked T on the plant part above.



38. What does the part named in (37) above develop into during growth?

39. Mention one immunisable diarrhoeal disease.

40. Give one condition that promotes breeding in bacteria.

### Section B (60 Marks)

41. (a) What is meant by the term **fracture**?

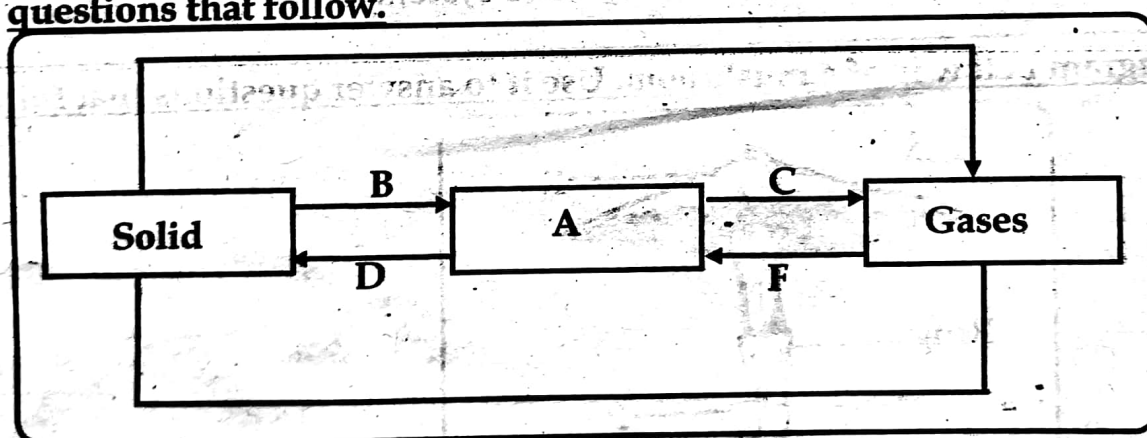
(b) Name any one type of fracture.

(c) How are the following important in the giving of first aid for a fracture?

(i) Arm sling

(ii) Stretcher

42. The diagram below shows physical change in matter. Use it to answer the questions that follow.



(a) Name the changes shown by letters D and F.

(i) D: \_\_\_\_\_ (ii) F: \_\_\_\_\_

(b) Which **form of energy** enables change B to take place?

(c) What process in the diagram makes dew disappear during hot days?

43. (a) How are the following tuber crops propagated?

(i) cassava

(ii) turnips

(b) Why should sacks containing stored crops be kept on raised stands?

(c) Which is the best season for growing crops?

44. (a) What type of root system is found in the groups of flowering plants below?

(i) Monocotyledonous plants

(ii) Dicotyledonous plants

(b) How are root hairs important on a tap root system?

(c) Name the plant system that *develops from the radicle of the seed during germination*.

45. (a) Mention one important process that takes place in the ileum.

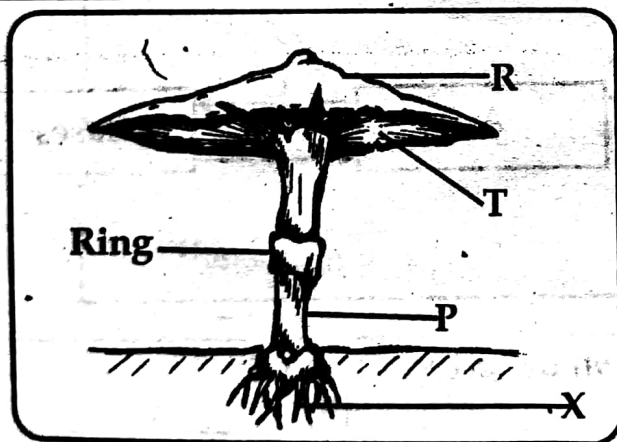
(b) Name the type of digestion where:

(i) food is broken down by teeth

(ii) food broken down by enzymes

(c) Name one disease of the human digestive system

46. The diagram below is of a mushroom. Use it to answer questions that follow.



(a) Name the part marked T and P.

(i) T: (ii) P:

(b) How is part X important on the mushroom above?

(c) What *food value* is got by feeding on mushroom?

47. (a) Name the two groups of vertebrates.

(i) (ii)



(b) What **type of skeleton** is mainly found in vertebrates?

(c) Why are animals not able to make their own food?

48. (a) To what **type of change** is moulting in animals?

(b) **Apart from the above types of change**, mention **two** other types of changes in the environment.

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

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

(c) How does painting help to prevent the rusting of metals?

49. (a) Write the term used to mean the following in keeping bees.

(i) **Selecting a suitable place to put a bee hive** \_\_\_\_\_

(ii) **Encouraging of bees to occupy an empty hive** \_\_\_\_\_

(b) Mention any **two** types of bees.

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

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

50. (a) Write **two** tuber crops that are first planted in a nursery bed.

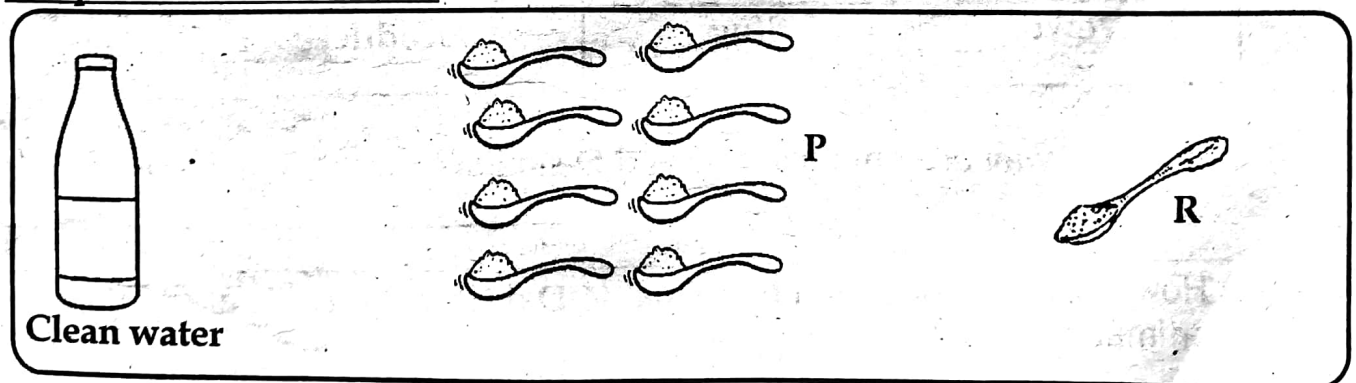
(i) \_\_\_\_\_

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

(b) **Apart from cassava**, give **one** other example of a root tuber.

(c) State any **one** way of caring for tuber crops in the garden.

51. **The diagram below shows how a nurse prepares ORS locally. Use it to answer the questions that follow.**



(a) Name the substance labelled:

(i) R : \_\_\_\_\_ (ii) P : \_\_\_\_\_

(b) Why is it important for a nurse to wash her hands before mixing ORS?

(c) Give **one** reason why a dehydrated person should be given ORS.

52. (a) Name any two elements of weather.  
 (i) \_\_\_\_\_ (ii) \_\_\_\_\_  
 (b) How are the following weather instruments important?  
 (i) Wind vane \_\_\_\_\_  
 (ii) Anemometer \_\_\_\_\_
53. (a) Mention any two places where bacteria can be found.  
 (i) \_\_\_\_\_  
 (ii) \_\_\_\_\_  
 (b) Name one diarrhoeal disease in humans caused by bacteria.  
 \_\_\_\_\_  
 (c) State one way how bacteria is useful in the environment.  
 \_\_\_\_\_
54. (a) Give any one way that can be used to put out fire.  
 \_\_\_\_\_  
 (b) State any one reason why fire extinguishers are always painted red.  
 \_\_\_\_\_  
 (c) Name the **component of air** that supports combustion.  
 \_\_\_\_\_  
 (d) Why is it not advisable to put out petrol fire using water?  
 \_\_\_\_\_

55. Study the table of animals below and answer the questions that follow.

A	B	C	D
Newt	Slug	Crocodile	Bat

- (a) In which way are animals A, C and D similar?  
 \_\_\_\_\_
- (b) How is the reproduction of animal in D different from that of other animals?  
 \_\_\_\_\_
- (c) To which group of vertebrates does the animal in C belong?  
 \_\_\_\_\_
- (d) How is the animal in B different from the rest of the animals?  
 \_\_\_\_\_