



# THE PRIME EXAMINATIONS 2022

## PRIMARY SIX END OF YEAR

### INTEGRATED SCIENCE (Abridged Curriculum)

Time allowed 2 hours 15 minutes



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#### 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.
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 using 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 handwriting that cannot easily be read may lead to **loss of marks**.
6. Do not fill anything in the table indicated "For Examiners' use only", and those boxes inside the question paper.

#### 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         |                |          |
| 52 - 55         |                |          |
| TOTAL           |                |          |

Consultant  
Integrated Science Department (PEC)

APPROVED:

*[Signature]*

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THE PRIME: SCHEMING FRAMEWORKS, PUPILS' WORKBOOKS, LESSON COURSE BOOKS,  
HOLIDAY PACKAGES, LEARNING GAMES AND MORE...

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Kampala

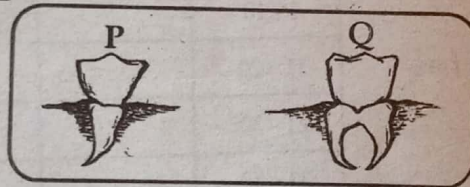
Turn Over



**Section A. (40 Marks)**

1. Name any one type of musical instruments.
2. What do we call the breathing organs of an insect?
3. How does a flute produce sound?
4. In which one way are air sacs adapted to their function?
5. Mention any one substance transported by blood in the human body.
6. Give the main reason for poultry farmers to rearing layers.
7. By what process does heat travel through gases?
8. Write down any one example of essential drugs.
9. Which *type of germination* do cowpeas undergo?
10. Give any one importance of snakes to crop farmers.
11. Mention any one method of storing sound.

**Study the teeth as illustrated in the diagrams below and answer questions 12 and 13.**



12. Identify the tooth marked Q.
13. How is the tooth marked P adapted to its function?
14. Mention the *class of food* that is necessary for steaming up a pregnant cow.
15. Give one way man use the *process of condensation*.
16. How is reproduction of moss plant different from that of bean plant?



17. Which type of soil has the highest soil capillarity?

18. Give the main cause of fainting in people.

The diagram below shows a bird's foot. Use it to answer questions 19 and 20.



19. Name the structure marked R.

20. Mention any one bird with such kind of foot.

21. State any one role of children in a home.

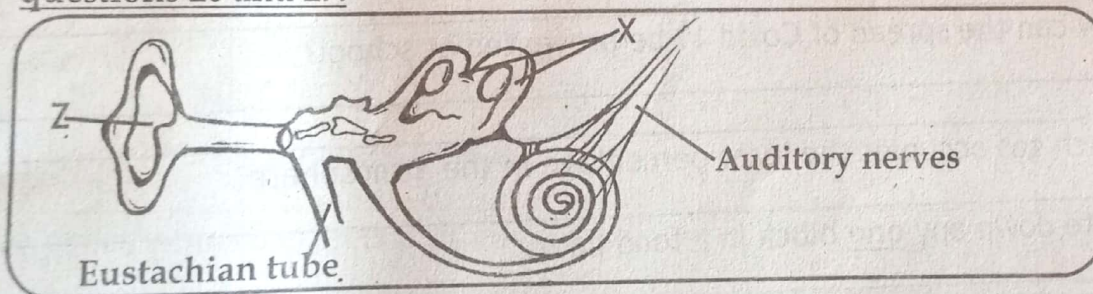
22. Write TASSO in full.

23. Why do farmers carry out cross breeding?

24. Name any one dangerous chemical found in tobacco smoke.

25. Which *element of weather* encourages people to move with umbrellas and gumboots?

The structure below shows parts of the human ear, use it to answer questions 26 and 27.



26. Name the part of the human ear marked X.

27. How is part marked Z important in the process of hearing?

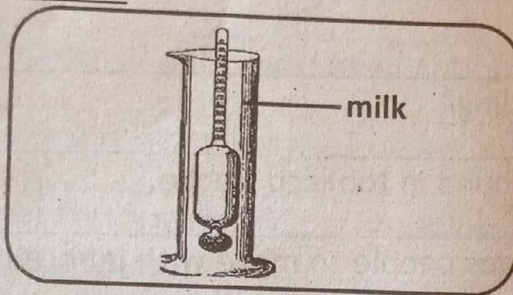
28. Change  $65^{\circ}\text{C}$  to  $^{\circ}\text{F}$

Blank box for the answer to question 28.



29. Give any one difference between a *germ* and a *vector*.
30. Why are we advised to brush our teeth after every meal?
31. Give any one function of a tongue during digestion of food.
32. State the **best method** used to obtain safe water for drinking.
33. Give the function of valves in a vein.

The diagram below shows a tool used in a dairy farm. Use it to answer question 34.



34. Give a reason why the above tool has sunk in milk.
35. How can the spread of Covid 19 be prevented at school?
36. Which gas occupies the least percentage in the atmosphere?
37. Write down any one block in a food path.
38. Name any one way soil is formed.
39. Give a reason why water is regarded as a renewable resource.
40. How does crop rotation control pests in a garden?



Section B. (60 Marks)

41. (a) Give the difference between a *solute* and a *solvent*.

(b) Name the solutes used when preparing SSS.

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

(c) Why do we give SSS to dehydrated victim?

42. (a) What is meant by *the term* **PHC**?

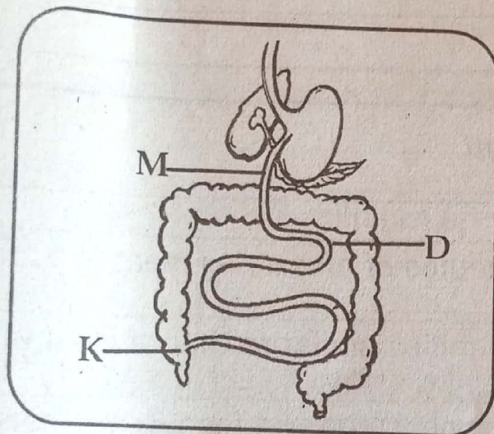
(b) Which element of PHC is practiced through?;

(i) Growing food crops;

(ii) Cutting finger nails short;

(iii) Injecting pregnant mothers a TT vaccine;

Below is a part of digestive system. Use it to answer the questions that follow.



43. (a) Name the part marked with letter M.

(b) Which disease effects part marked K?

(c) Give one way in which part D is able to carry out its function.

(d) How does the stomach simplify the process of digestion?

44. (a) State two ways in which landslides affect environment.

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

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

(b) Give one way of controlling each of the following natural changes.

(i) floods ; \_\_\_\_\_

(ii) drought ; \_\_\_\_\_



45. (a) State the difference between *an invalid* and *a convalescent*.

(b) Mention any two food values recommended for sick people.

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

(c) At what age should weaning start in babies?

46. Match the following vertebrates in list A with their groups in list B.

| List A       | List B    |
|--------------|-----------|
| (i) Kite     | amphibian |
| (ii) Bat     | reptile   |
| (iii) Turtle | mammal    |
| (iv) Newt    | bird      |
| (i) Kite     | _____     |
| (ii) Bat     | _____     |
| (iii) Turtle | _____     |
| (iv) Newt    | _____     |

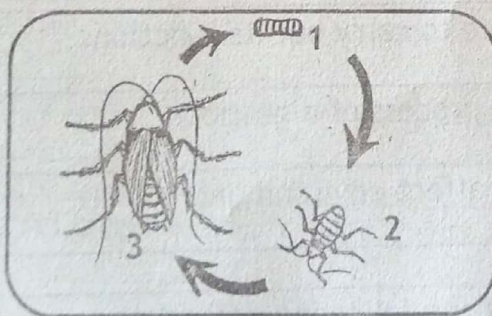
47. (a) What is *food preservation*?

(b) Mention one traditional method of preserving meat in your homes.

(c) How is the preservation of millet similar to that of cassava?

(d) Name the fungus that commonly grows on food items that are not properly dried.

The diagram below is of a life cycle of an insect vector. Use it to answer questions that follow.





48. (a) Name the stage marked 2 from the diagram above.

(b) Write down any one disease spread by stage 3 from the diagram above.

(c) In which two ways can the disease mentioned in (b) above be controlled?

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

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

49. (a) Name one tuber crop with erect stem.

(b) Give one way of harvesting tuber crops.

(c) How does sun drying preserve sliced cassava?

(d) Give one biological way of controlling crop pests.

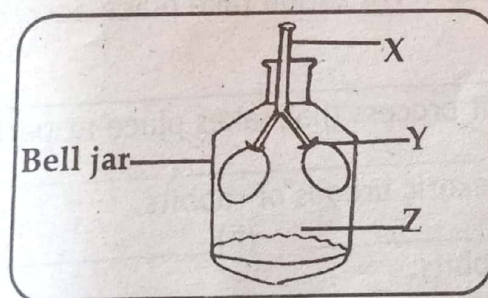
50. (a) What causes AIDS?

(b) How is AIDS commonly spread among adults?

(c) State one common sign of both AIDS and Measles patients.

(d) Write down one way a P.7 child can prevent himself or herself from getting AIDS.

51. The diagram below represents a certain body system. Use it to answer the questions about it.



(a) Name the body system represented by the diagram above.

(b) What does part marked X represent?

(c) State one habit which is destructive to the body system above.

(d) What would happen to part Y if Z is pushed upwards?



52. (a) Name any two types of thermometers.  
(i) \_\_\_\_\_ (ii) \_\_\_\_\_  
(b) How is a *kink* similar to *valves* of the veins?

\_\_\_\_\_

(c) How important is a clinical thermometer to a doctor?

53. (a) What is the name given to *the practice of covering top soil with dry plant materials*?

\_\_\_\_\_

(b) State any one reason for covering top soil with dry plant materials.

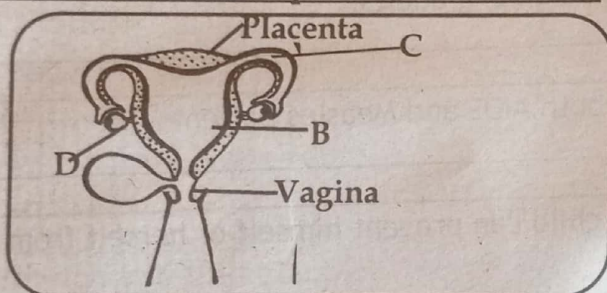
\_\_\_\_\_

(c) Give any one disadvantage of covering top soil with dry plant materials.

\_\_\_\_\_

(d) How is mulching related to crop rotation in function?

54. The diagram shown below is about the female reproductive system in humans. Use it to answer questions that follow.



(a) Identify parts marked B and D

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

(b) Where does the process of fertilization take place according to the diagram above?

\_\_\_\_\_

(c) Name any one important process that takes place at part marked B.

55. (a) Write two examples of exotic breeds of rabbits.

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

(b) Name one disease of rabbits.

\_\_\_\_\_

(c) Mention any one reason for raising the rabbit hutch slightly above the ground.