



**VICTORY STEP EDUCATION SERVICES**  
**PRE-PLE EXAMINATION SUPER MAGIC SET THREE**

2022

**INTEGRATED SCIENCE**

**Time allowed: 2 hours 15 minutes**

<b>Random No.</b>						<b>Personal No.</b>		

**Candidate's Name:** .....

**Candidate's signature:** .....

**School Random No:** .....

**District ID:**

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**Read the following instructions carefully:**

- 1.** Do not write your **school** or **district name** anywhere on this paper.
- 2.** Section **A** and **B**. Section **A** has 40 questions and section **B** has **12 questions**. This paper has **10** pages printed together.
- 3.** Answer **all** questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
- 4.** **All** working must be done using **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **NOT** be marked.
- 5.** **No calculators** are allowed in the examination room.
- 6.** Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks.
- 7.** Do not fill anything in the table indicated: "**For examiner's use only**" and the boxes inside the paper.

FOR EXAMINER'S USE ONLY		
Qn. No.	MARK	EXR'S NO
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
Total		

## SECTION A: 40 MARKS

Questions **1** to **40** carry one mark each.

1. Name any one type of a goat.

.....

2. Give any one planting material in flowering plants.

.....

3. Which form energy increases temperature of a body or object?

.....

4. Mention one sign of heat period in a cow.

.....

5. Why does a bedbug produce a bad smell when touched?

.....

6. Which resource in the environment enables children to fly kites?

.....

7. Write one PIASCY message that prevents school going children from getting HIV/AIDS.

.....

8. Why does the cactus plant develop thorny leaves?

.....

9. In which way is too much rainfall dangerous to the soil?

.....

10. How best can you prevent accidents when crossing the road?

.....

11. Name the simple leaf drawn below.



.....

12. Give one common sign in fracture, sprain and dislocation.

.....

.....

13. Name one substance that can exist in all the three states of matter.

.....

14. Why do some animals like fish and amphibians lay very many eggs?

.....

15. Apart from immunisation, how else can the spread of polio be prevented?

.....

16. Why is it important to plant short grass in the compound?

.....

17. Give one similarity between mammals and birds.

.....

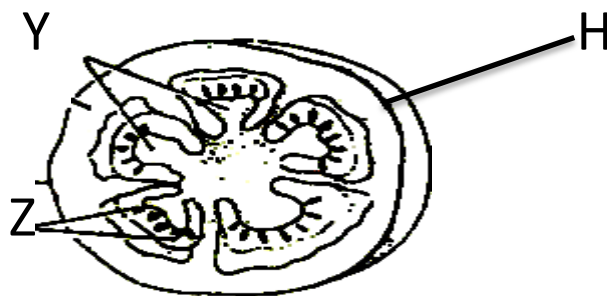
18. What advice can you to a mother whose 10 year old child is suffering from fever.

.....

19. Why does a cockroach that pass through cassava flour die after sometime?

.....

Study the diagram below of the fruit and use it to answer the questions that follow.



20. Name the part of the fruit marked H.

.....

21. Give one example of a such fruit.

.....

22. What is the role of chlorophyll during transpiration?

.....

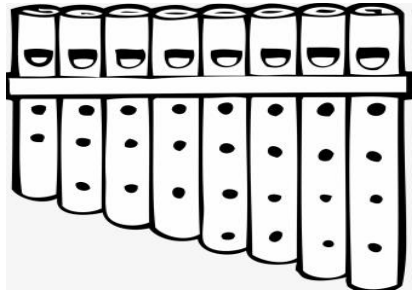
23. Why should waste materials be eliminated from the body as soon as they exceed a certain level?

.....

24. How does rural electrification help in conserving the environment?

.....  
25. State one advantage of breast feeding to a mother.  
.....

.....  
Use the diagram below to answer the questions that follow.



26. To which group of musical instruments does the instrument below belong?  
.....

27. How does the above instrument produce sound?  
.....

28. Give one importance of opaque objects in our daily today life.  
.....  
.....

29. In which way do some plants promote self pollination?  
.....

30. Give one sign of COVID – 19 .  
.....  
.....

31. What is the effect of failing to give enough calcium feeds to poultry?  
.....

32. How does mulching improve on soil fertility?  
.....  
.....

33. Which type change occurs when a fruit ripens?  
.....

34. How does air contribute to the drying of clothes?  
.....

35. Mention the food eaten by the bird whose foot is drawn below.  
.....



.....  
36. Why is it of a bad practice to pour paraffin or other chemicals in a latrine?  
.....

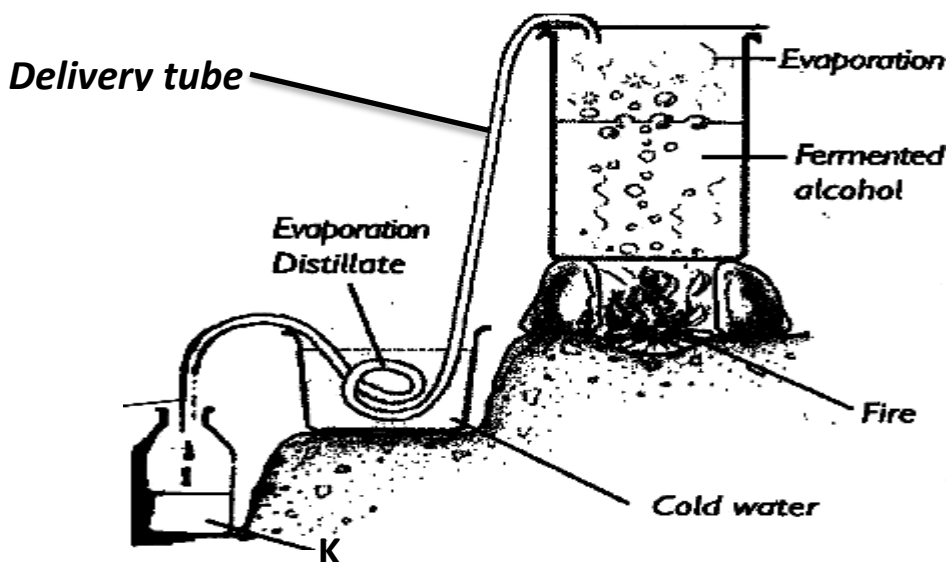
37. In which way is ash useful to people?

- .....
- .....
38. How can alcohol result into a very poor health?  
 .....
39. Which local method of food preservation is mainly used to preserve cassava at least for two months?  
 .....
40. Mention one secondary sex characteristic that occurs in girls only.  
 .....  
 .....

### SECTION B: 60 MARKS

Questions **41** to **55** carry four marks each.

41. (a) Give the meaning of the word "**weaning**"  
 .....  
 .....  
 (b) Give any one example of food given to weaning children.  
 .....  
 (c) State any one advantage of weaning.  
 .....  
 (d) Mention the mineral that lacks in breast milk.  
 .....
42. (a) State the importance of the following structures in the human skeleton.  
 (i) Ligament .....  
 (ii) Tendon .....  
 (b) Which body organ is protected by the back bone?  
 .....  
 (c) How are muscles important to the skeletal system?  
 .....
43. (a) Study the diagram below and use it to answer the questions that follow.



(a) Identify the method used above.

.....

(b) Name the alcoholic content marked **K**.

.....

(c) Why is the delivery tube in the cold water coiled?

.....

.....

(d) Give a reason why cold water becomes warm after a long time.

.....

.....

44. (a) Give any two causes of sickness in a home.

(i) .....

(ii) .....

(b) Mention any two ways how most health problems can be managed without using drugs.

(i) .....

(ii) .....

45. (a) Name the organ used by the following animals for hearing.

(i) Nile perch .....

(ii) Snake .....

(b) Besides hearing, give one other role of the ear to the human body.

.....

(c) How is hearing important to animals?

.....

46. (a) Why are birds grouped under warm – blooded vertebrates?

.....

(b) Apart from being warm blooded – vertebrates, mention any other characteristic common to all birds.

.....

.....

(c) Identify any one example of a swimming bird.

.....

(d) How are feathers important to a bird?

.....

.....

47. (a) Mention one natural process in plants which.

(i) Oxygen is used .....

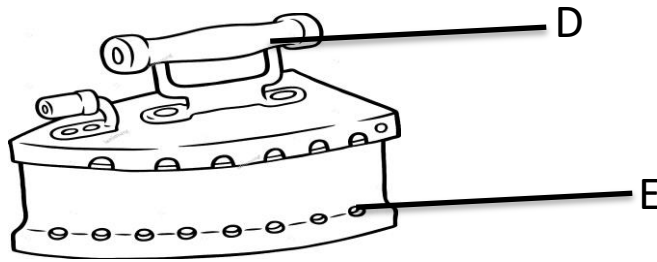
(ii) Water is lost to the atmosphere.

.....

(iii) Carbon dioxide is used.....

(iv) Ovary develops into a fruit

48. Study the diagram below and use it to answer the questions that follow.



(a) Name the source of energy the above item uses.

(b) What is the use of holes marked E.

(c) Why is part D made of wood?

(d) Which process of heat transfer enables the above item to function?

49. (a) Define the term respiration.

(b) Where does respiration take place in the body?

(c) Name the main product of respiration.

(d) Which gas is given out during respiration?

50.(a) How can the following resources be conserved in the environment?

(i) Fish

(ii) Minerals

(b) In which way can the following resources be put into use?

(i) Old papers

(ii) Old jerrycans

51.(a) Identify the worm that enters the body through walking while barefooted.

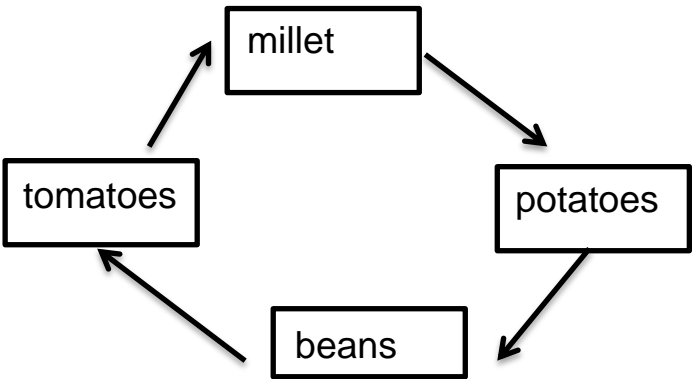
(b) Give one effect of the worm you have mentioned in 51(a) above.

(c) Give any two ways of preventing worm infection in the body.

(i)

(ii)

52. Below is an illustration how a farmer uses his piece of land at different seasons.



- (a) Which farming practice is illustrated above?  
.....
- (b) Give two advantages of the above farming practice.  
(i) .....  
(ii) .....
- (c) Which group of crops does millet belong?  
.....

- 53.(a) What are farm records?  
.....  
.....
- (b) List down any two types of farm records.  
(i) .....  
(ii) .....
- (c) Why would you encourage farmers to keep farm records?  
.....

- 54.(a) Name the substance formed when wood is burnt in;  
(i) Limited supply of oxygen .....  
(ii) Full supply of air .....
- (b) Which form of energy is stored in wood?  
.....
- (c) How is the use of wood dangerous to the environment?  
.....  
.....

- 55.(a) Give example of each of the following organisms below.  
(i) Gnawing mammals .....  
(ii) Pouched mammals .....  
(iii) Insect eating mammals .....  
(iv) Hoofed mammals .....



