



SURREKEY EXAMINATIONS BOARD  
PRIMARY SEVEN UNIQUE SERIES EXAMINATION  
2023

INTEGRATED SCIENCE

*Time Allowed: 2 hours 15 minutes*

<b>Index No.</b>	<b>EMIS No.</b>	<b>Personal No.</b>
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**Pupil's Name:** .....

**Pupil's Signature:** .....

**School Name:** .....

**District Name:** .....

**Read the following instructions carefully:**

1. Do not forget to write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**.  
Section **A** has **40** questions and section **B** has **15** questions. The paper has **16** printed pages.
3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown 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 will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated: **"For Examiners' use only"** and boxes inside the question paper.

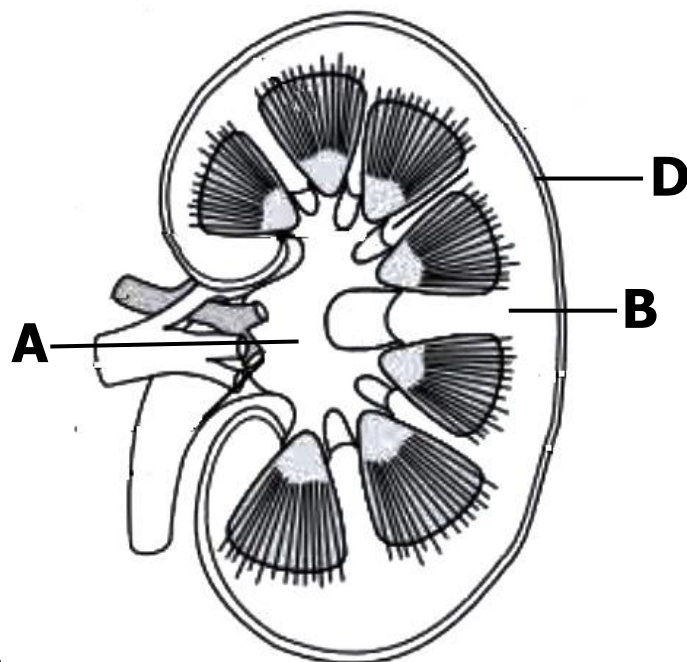
FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

## SECTION A: 40 MARKS

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

1. Name the device used to reset a six's thermometer.  
.....
2. State any **one** way of controlling the spread of dysentery among people.  
.....
3. Which type of teeth enables a person to peel a sugarcane?  
.....
4. Why does a jackfruit send off smell when it matures and ripens?  
.....
5. Name the disease in cows that affects the production of dairy products.  
.....

The diagram below shows a human kidney. Use it to answer questions **6** and **7**.



6. Name part marked **A**.  
.....
7. In which way is the function of part marked **B** different from that of part **D**?  
.....  
.....

8. Which agent of soil erosion is controlled by terracing?

.....

9. State any **one** advantage of using cage system in poultry keeping.

.....

10. State any **one** characteristic of molluscs.

.....



11. In which way is carbon dioxide useful to beverage industries?

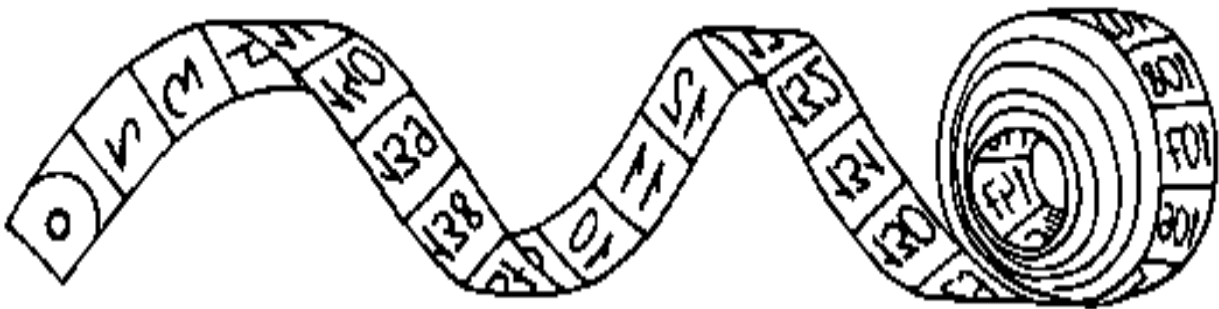
.....

.....

12. To which group of simple machines does a pencil sharpener belong?

.....

The diagram below shows a garden tool used in planting. Use it to answer question **13** and **14**.



13. Name the garden tool shown in the diagram above.

.....

14. In which method of planting is the garden tool above required?

.....

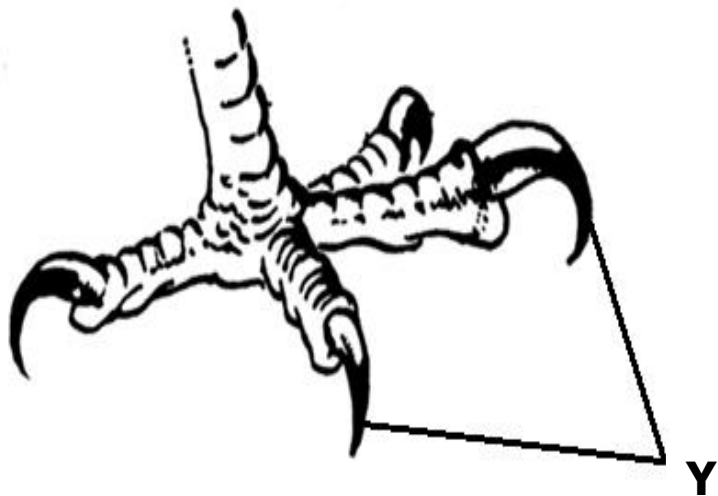
15. State any **one** way in which the spread of germs through food can be controlled.
- .....
16. Mention any **one** traditional method of extracting honey from honey combs.
- .....
17. How is the storage of seeds in a pine plant different from that of a pea plant?
- .....
- .....
18. State the method used to separate millet seeds from chaff.
- .....
19. Give any **one** reason why the house of goats is made with a slanting surface.
- .....
20. How is salivary amylase useful during digestion of food in the body?
- .....
- .....
21. A torch uses two dry cells. Calculate the voltage of the torch.
- .....
22. How does gonorrhoea increase the chances of a person getting HIV/AIDS?
- .....



23. State any **one** way in which the spread of round worms can be prevented.

.....

The diagram below shows a foot of an eagle. Use it to answer questions **24** and **25**.



24. Name the structure marked **Y**.

.....

25. How are the structures marked **Y** useful to an eagle?

.....

26. Why is it not necessary to put a lid on the hole of a Ventilated Improved Pit latrine?

.....

27. Name the source of energy for producers in a food chain.

.....

28. State the method of making alcohol that requires heat to take place.

.....

29. Why is it advisable to cough or sneeze in a handkerchief?

.....

30. Apart from sorting, state any **one** other step involved in cleaning clothes.

.....

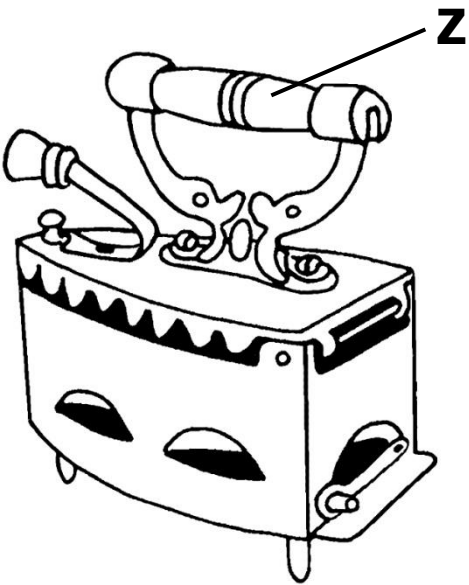
31. Give any **one** way in which the skeleton is important to the human body.

.....

32. How does malaria leads to anaemia in the body?

.....

The diagram below is of a metallic ironing box. Use it to answer questions **33** and **34**.



33. Name the form of energy that enables the ironing box above to operate.

.....

34. How is part marked **Z** able to prevent the user’s hand from getting burnt while using the ironing box above?

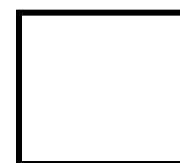
.....

.....

35. Which immunizable disease causes stiff muscles in children?

.....

36. Apart from causing diseases, give any **one** other way in which bacteria are dangerous to people?
- .....
37. State any **one** characteristic of renewable resources in the environment.
- .....
38. Give any **one** way in which people use density in their daily life.
- .....
39. Name the weather instrument used to measure atmospheric pressure.
- .....
40. State the group of annual crops which help to prevent kwashiorkor in children?
- .....



## SECTION B: 60 MARKS

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

41. (a) Which component of blood transports digested food in the body?  
.....
- (b) Apart from the component above, name any **two** other components of blood.
- (i) .....
- (ii) .....
- (c) State any **one** way in which the volume of blood can be increased in the body.  
.....
42. (a) Which stage of a housefly do maggots develop into during metamorphosis?  
.....
- (b) How are maggots useful in pit latrines?  
.....
- (c) Apart from maggots, name **one** other organism that is useful in pit latrines.  
.....
- (d) Why is it not advisable to pour chemicals like acids in pit latrines?  
.....
43. (a) Name the part of a fish that enables it to;
- (i) smell food from water .....
- (ii) sense danger in water .....



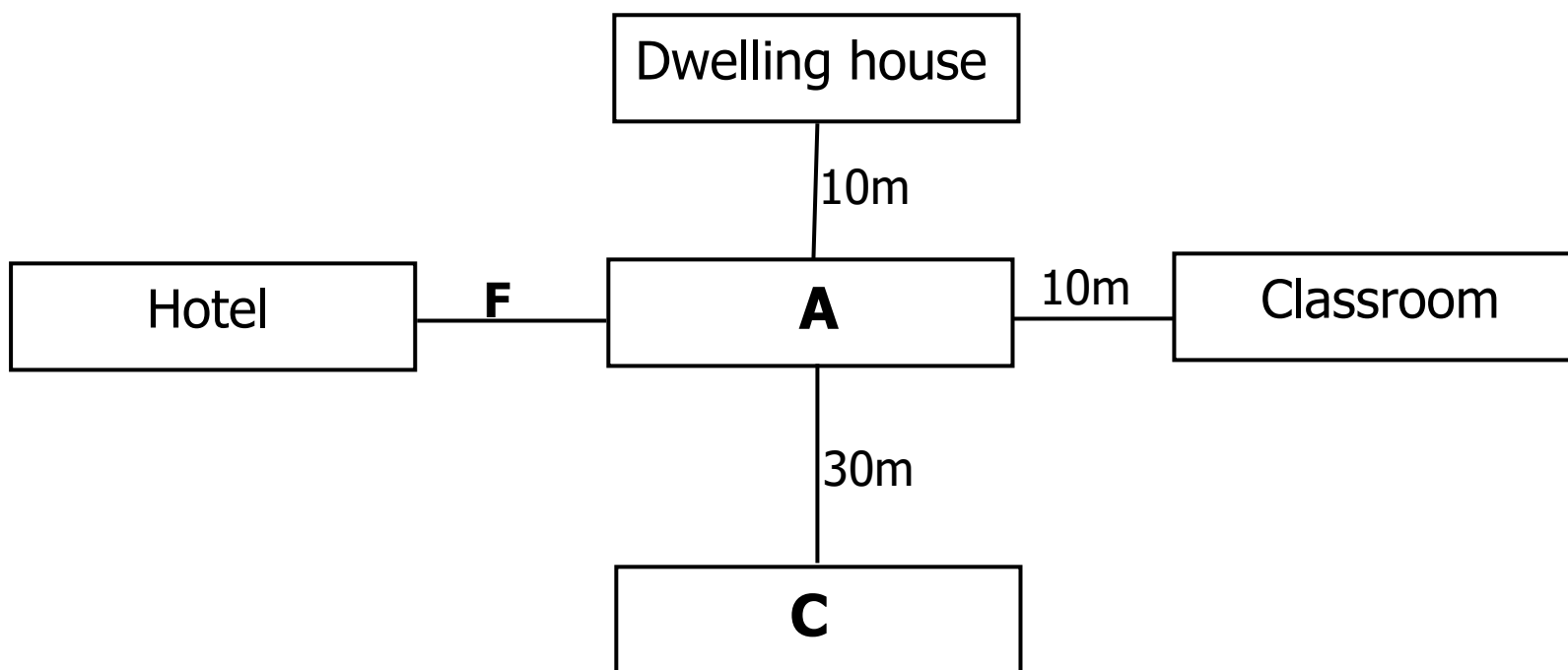
(b) State any **two** ways in which a fish is able to live in water.

(i) .....

(ii) .....



44. The diagram below shows a good site for a pit latrine. Study and use it to answer the questions that follow.



(a) Name the building found at point marked **A**.

.....

(b) Identify the distance marked **F**.

.....

(c) Why is the building marked **A** put at a distance of 30 metres from item marked **C**?

.....

(d) Mention any **one** other building that can be built 10 metres away from item marked **A**.

.....

45. (a) Mention any **two** physical processes in matter that help in rain formation.
- (i) .....
- (ii) .....
- (b) State any **two** properties of solid state of matter.
- (i) .....
- (ii) .....

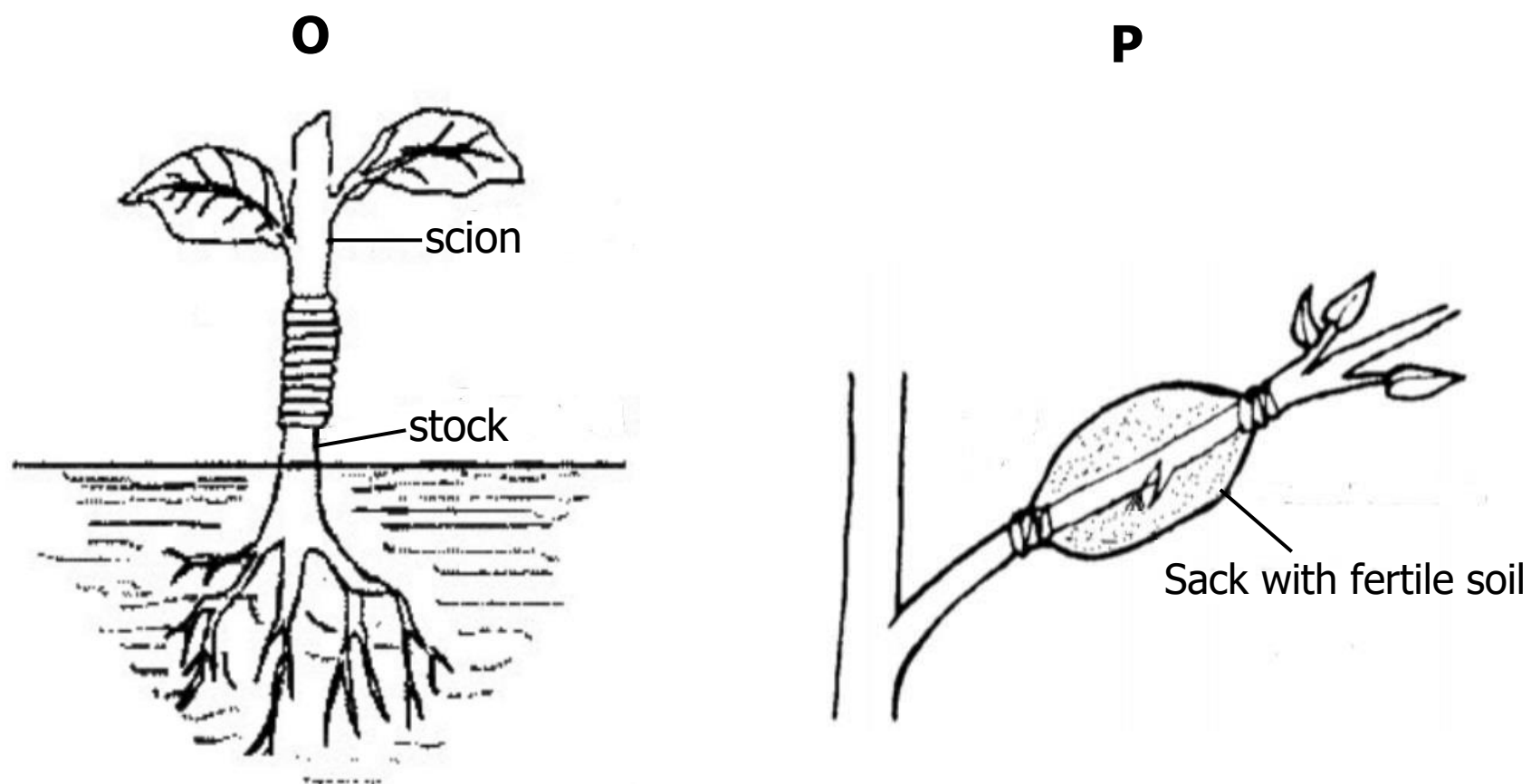
46. The table below shows alloys, their combination and their uses. Study and complete it correctly.

Alloy	Combination	Use
Solder	Lead and tin	.....
.....	Copper and zinc	For making ornaments
Bronze	.....	For making medals
Dental amalgam	Mercury and copper	.....



47. (a) Name the farm practice carried out in sheep that helps to;
- (i) make mating easy .....
- (ii) control foot rot in sheep .....
- (b) Give any **two** methods of grazing sheep.
- (i) .....
- (ii) .....

48. The diagram below shows artificial methods of vegetative plant propagation. Study and use it to answer the questions that follow.



- (a) Name the artificial method of vegetative plant propagation marked **O** and **P**.

(i) **O** .....

(ii) **P** .....

- (b) State the importance of the fertile soil found in the sack on the method marked **P**.

.....

- (c) Apart from the above methods, mention any **one** other artificial method of vegetative plant propagation.

.....

49. (a) Write down any **two** food stuff that can be given to a baby during weaning.

(i) .....

(ii) .....

(b) Give any **two** disadvantages of bottle feeding to a baby.

(i) .....

(ii) .....



50. (a) On which principle does a pinhole camera works?

.....

(b) Give any **two** characteristics of images formed by pinhole camera.

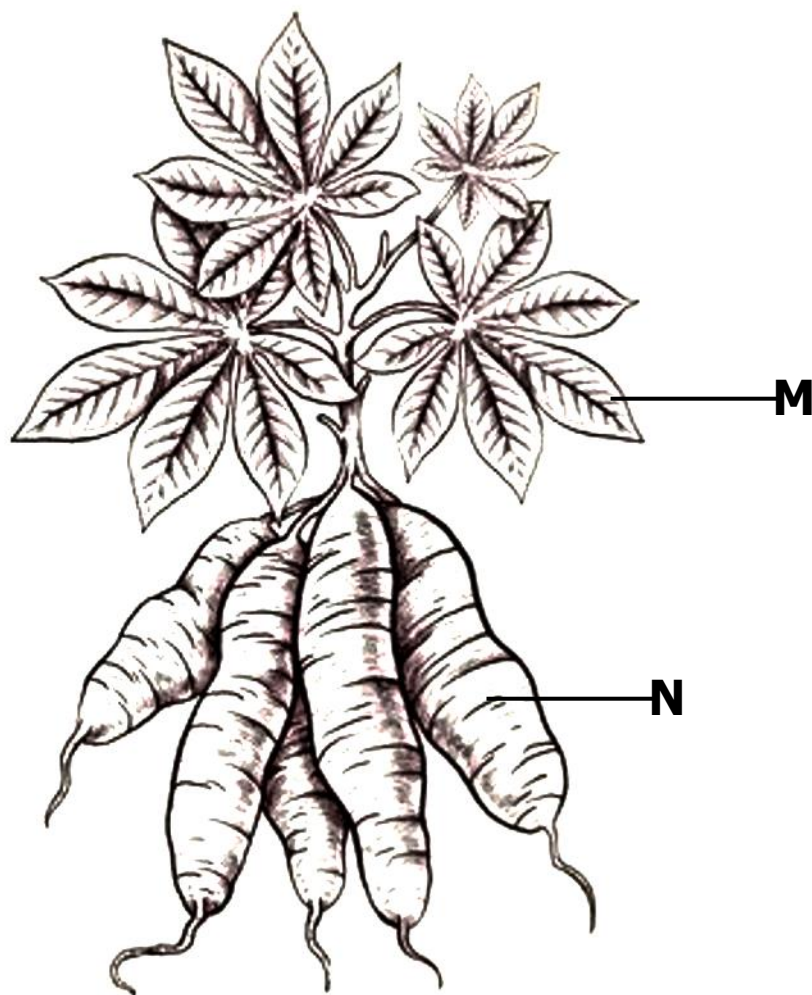
(i) .....

(ii) .....

(c) Mention any **one** factor which determines the sharpness of images formed by a pinhole camera.

.....

51. The diagram below shows a food crop commonly grown by people in the community. Study and use it to answer the questions that follow.



- (a) Name the part marked **N**.

.....

- (b) Which viral disease attacks part marked **M**?

.....

- (c) Identify the class of food found in part marked **N**.

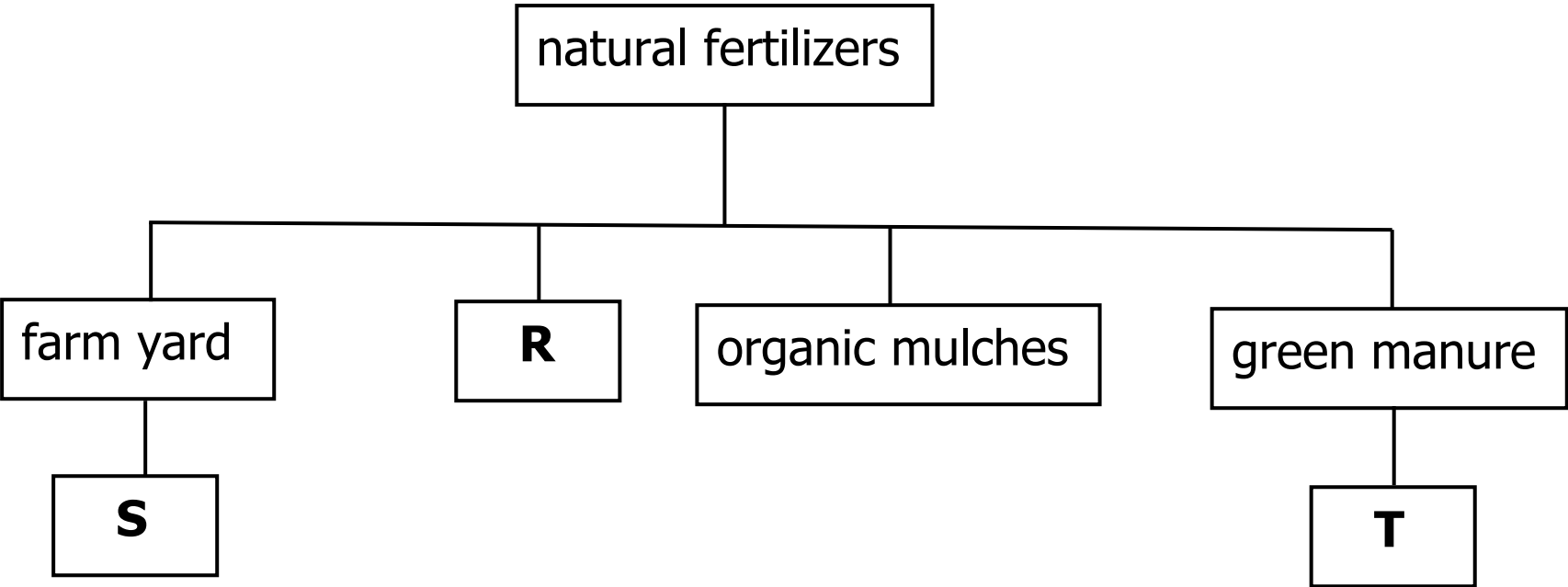
.....

- (d) In which way is the food storage in the plant above different from that of a sugarcane?

.....

.....

52. The table below shows types of natural fertilizers. Study and use it to answer the questions that follows.

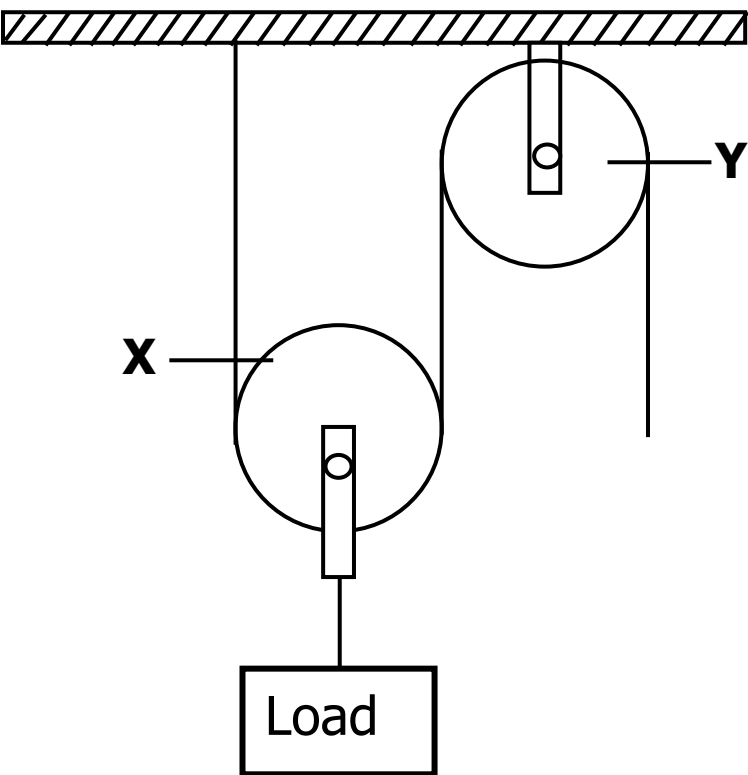


- (a) Name the type of fertilizer represented by **R**.  
.....
- (b) Which group of plants is represented by **T**?  
.....
- (c) Mention any **one** material that can be put at **S**.  
.....
- (d) Identify the type of natural fertilizer from the table above to which dry grass belongs.  
.....



53. (a) Give any **two** examples of emotional changes in adolescents.
- (i) .....
- (ii) .....
- (b) Write down any **one** disorder that affects the reproductive system of human beings.
- .....
- (c) State any **one** way in which adolescents can manage their body changes.
- .....
54. (a) Write down any **two** factors to consider when choosing a site for building a residential house.
- (i) .....
- (ii) .....
- (b) Give any **one** quality of a good residential house.
- .....
- (c) State any **one** danger of failing to clean the residential house regularly.
- .....

55. The diagram below is of a block and tackle pulley system. Study and use it to answer the questions that follow.



- (a) Name the pulleys marked **X** and **Y** in the system above.
- (i) **X** .....
- (ii) **Y** .....
- (b) Give **one** way in which the above pulley system simplifies work.
- .....
- (c) State the advantage of using pulley marked **X** over pulley marked **Y**.
- .....
- .....

