



VICTORY STEP EDUCATION SERVICES(VSES)

PRIMARY SEVEN SILVER SET TWO

2024



INTEGRATED SCIENCE

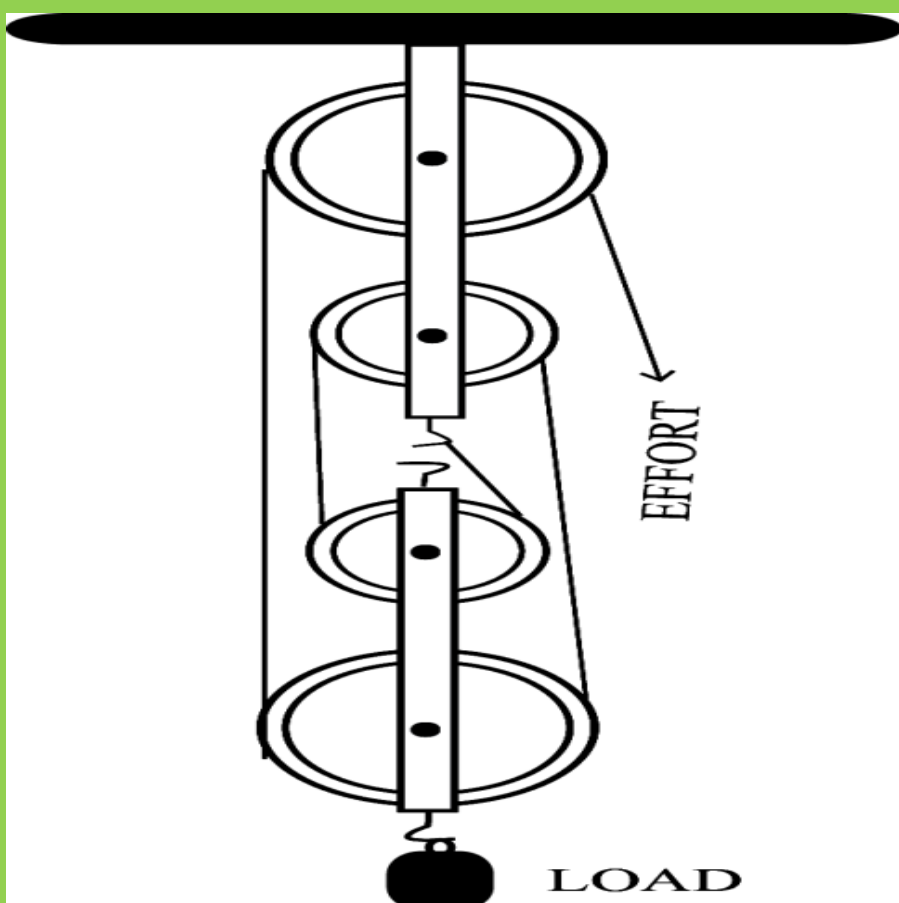
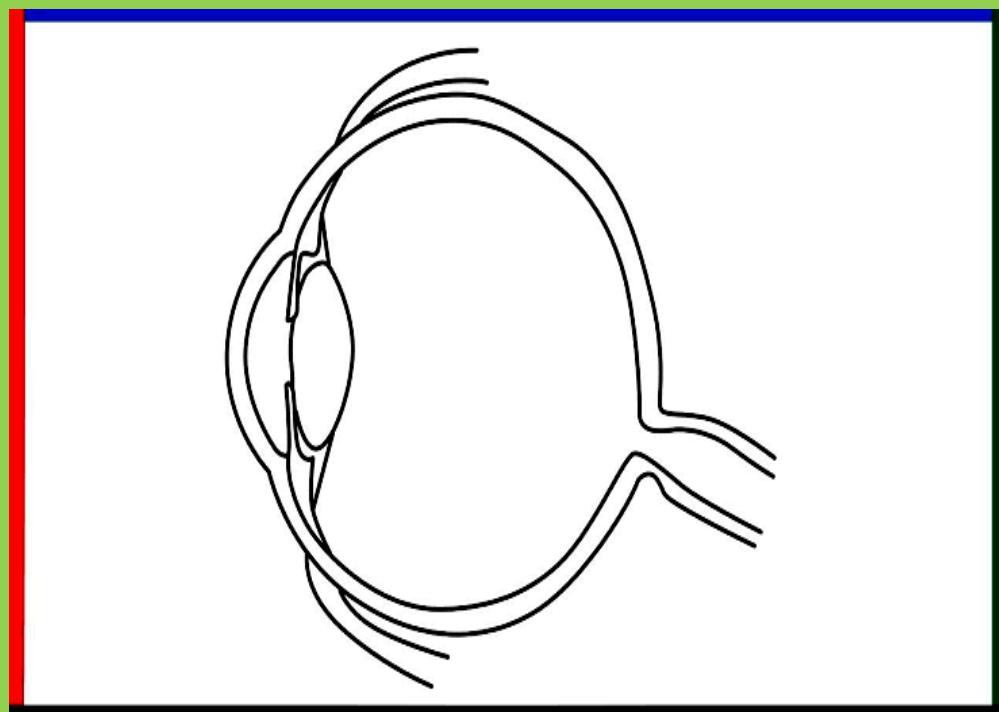


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SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. How can mulching be dangerous to a farmer?

- ✓ *Mulches may be a source of fire hazards in case of fire outbreak.*
- ✓ *Wet mulches with mature seeds may turn into weeds*

2. Give the meaning of matter.

- ✓ *Matter is any thing that has mass and weight//Matter is anything that occupies space and has mass.*
- ✓ *Reject matter is anything that occupies space and has weight.*

3. Which component of a circuit breaks it in case of too much current flow?

- ✓ *A fuse reject a switch a switch breaks or completes the circuit.*

4. How does paddock grazing help to control tick borne diseases?

- ✓ *Breaks the life cycle of ticks.*

5. Mention any one characteristic of forms of energy.

- ✓ *They make work possible// It enables us to do work*
- ✓ *Energy can be changed from one form to another.*

6. Mention any one factor considered when starting a school garden.

- ✓ *Well drained piece of land*
- ✓ *Capital*
- ✓ *Seeds to plant*
- ✓ *Garden tools*
- ✓ *Water*
- ✓ *Labour source*

7. To which group of organisms does the organism below belong.



- ✓ *Fungi kingdom*

8. How does the above organism reproduce ?

- ✓ *By means of spores*

9. Which type of change occurs when volcanic eruption occurs?

- ✓ *Physical change*

10. Why should a house for goats be well ventilated?

- ✓ *For proper air circulation.*

11. Mention any one way germs can be spread spread.

- ✓ *By vectors landing on our food with them(germs)*
- ✓ *By vectors vomiting on our food*

✓ ***Taking contaminated food and water***

✓ ***Through air***

✓ ***Through body contact***

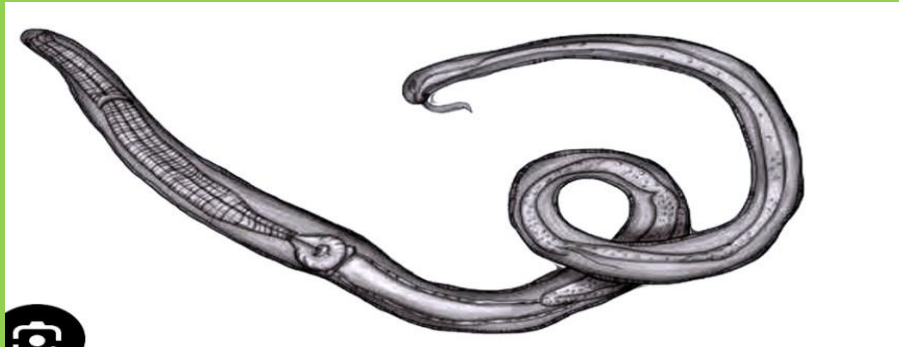
✓ ***Through shaking hands***

✓ ***Through sharing bathing materials like basins and sponges***

✓ ***Through blood transfusion***

✓ ***Through sharing clothes.***

12. What does the worm drawn below feed on?



✓ ***Blood***

13. Mention any one sign of the worm drawn above in the body.

✓ ***Diarrhoea//itching on the lower leg//body weakness//stomach pain***

14. What first aid can you give to a person who has been burnt by porridge?

✓ ***Put the burnt part in clean cold water***

✓ ***Pour clean cold water on the burnt part***

15. Which rabbit disease leads to mucus discharge from the nose and sneezing of the rabbit all the time?

✓ ***Snuffles//snuffle disease***

16. How is the gall bladder important in the human body?

✓ ***For storing bile //bile salts//bile pigments***

17. Mention any one danger of too much rainfall in the environment

✓ ***Too much rainfall causes floods***

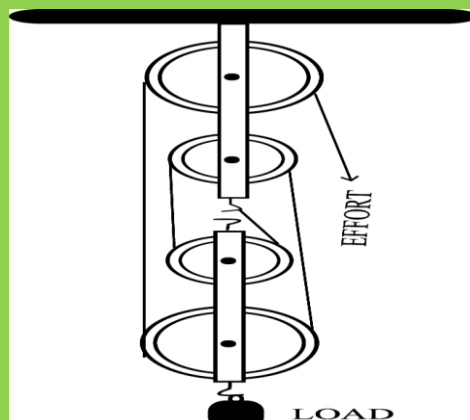
✓ ***Rainfall which carries hail storm and storms destroys crops and property***

✓ ***Floods may increase the spread of water borne diseases***

18. Which term refers to animals without a back bone?

✓ ***Invertebrates***

19. Name the pulley system drawn below



✓ ***Block And Tackle***

20. What is the mechanical advantage of the pulley system drawn above?

✓ ***M.A(Mechanical Advantage) = 4***

✓ ***Count the number of wheels in the pulley system***

✓ ***Count the number of strings in the pulley system.Do not count the effort string***

21. State one reason why sound is referred to as a form of energy.

✓ ***It enables us to do work//Has the ability to do work//Capable to do Work***

✓ ***It can be transformed from one form to another***

22. What is the function of the Aorta during blood circulation in the body?

✓ Carries/transportes oxygenated blood from the heart to all body parts

23. How best can a primary child protect him/herself from contracting HIV/AIDS?

✓ ***Abstaining from sex***

✓ ***Say NO to sex***

24. Why should a cattle keeper use a clean dry cup when extracting milk from a cow?

✓ ***To prevent milk contamination// to prevent milk from getting contaminated***

25. How is a burddizo important in piggery?

✓ ***For carrying out closed castration//For castrating male pigs(boars)***

26. Mention any one example of an animal fibre

✓ ***Silk//fur//mohair//wool***

27. Why do farmers prefer rearing local breeds of chicken to exotic breeds of chicken?

✓ ***Local breeds of chicken are resistant to diseases compared to exotic ones***

✓ ***Local breeds of chicken are resistant to harsh climatic/weather conditions compared to exotic breeds***

28. How does the use of charcoal energy saving stoves help to reduce on the rate of deforestation in an area?

✓ ***They use less charcoal which reduces on the rate of deforestation.***

29. How are molar teeth similar to pre – molars in terms of their function?

✓ ***Both are used to crush food/chew food***

30. Which mineral is a source of tungsten used to make electric bulb filaments?

✓ ***Wolfram***

31. Mention any one example of a gas fuel.

✓ ***Biogas//Natural gas***

32. Why should plastics and polythene bags be properly disposed?

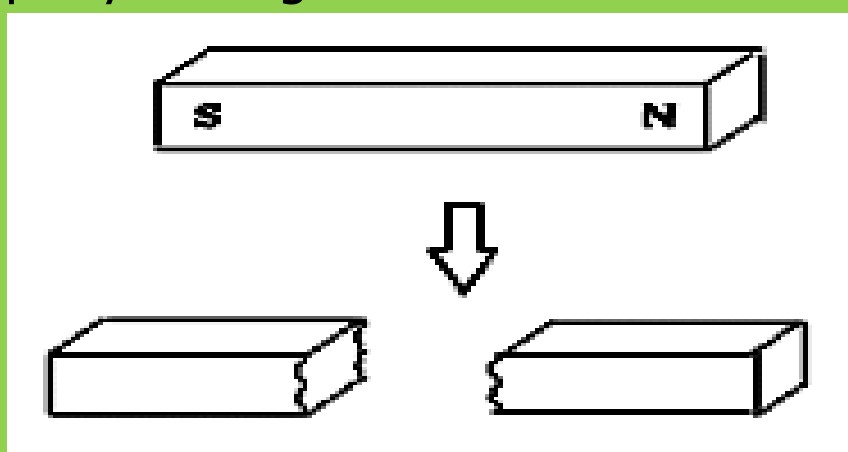
✓ ***To prevent soil pollution***

✓ ***To prevent environmental degradation***

33. Mention the main product of respiration.

✓ ***Energy***

34. Which property of magnets is drawn below?



✓ ***When a magnet breaks into pieces each piece becomes an independent magnet***

35. List down one sign of pregnancy in women.

- ✓ **Menstruation period stops**
- ✓ **Breasts grow bigger and tender**
- ✓ **The belly expands due to increasing size of the foetus**

- ✓ **Frequent urination**
- ✓ **Morning sickness//Nausea and vomiting**
- ✓ **Food cravings**
- ✓ **Fatigue**

36. Which Immunizable disease leads to lameness?

- ✓ **Polio//poliomyelitis**

37. State any one effect of rusting to metals.

- ✓ **Makes garden tools blunt**
- ✓ **Changes the colour of garden tools**

38. Which fungus is used in the fermentation method of making alcohol?

- ✓ **Yeast**

39. Give a reason why water is added in a pit when making compost manure?

- ✓ **To increase on the rate of decomposition//To quicken the decomposition process**

40. Mention any one advantage of artificial fertilizers.

- ✓ **Easy to apply**
- ✓ **Contain right nutrients in the correct quantity**
- ✓ **Release nutrients quickly**
- ✓ **They are quick to improve soil fertility**

SECTION B(60MARKS).

41a). Which method is used to separate a mixture of water and alcohol?

- ✓ **Fractional distillation**

b) Give a reason why the above method is used to separate a mixture of water and alcohol.

- ✓ **They have the same density**
- ✓ **They evaporate at different temperatures**

c) Mention any other two methods used to separate mixtures.

- ✓ **Distillation method/winning//decantation//floating//filtration//use of a magnet//sieving//hand picking//evaporating a mixture to dryness**

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



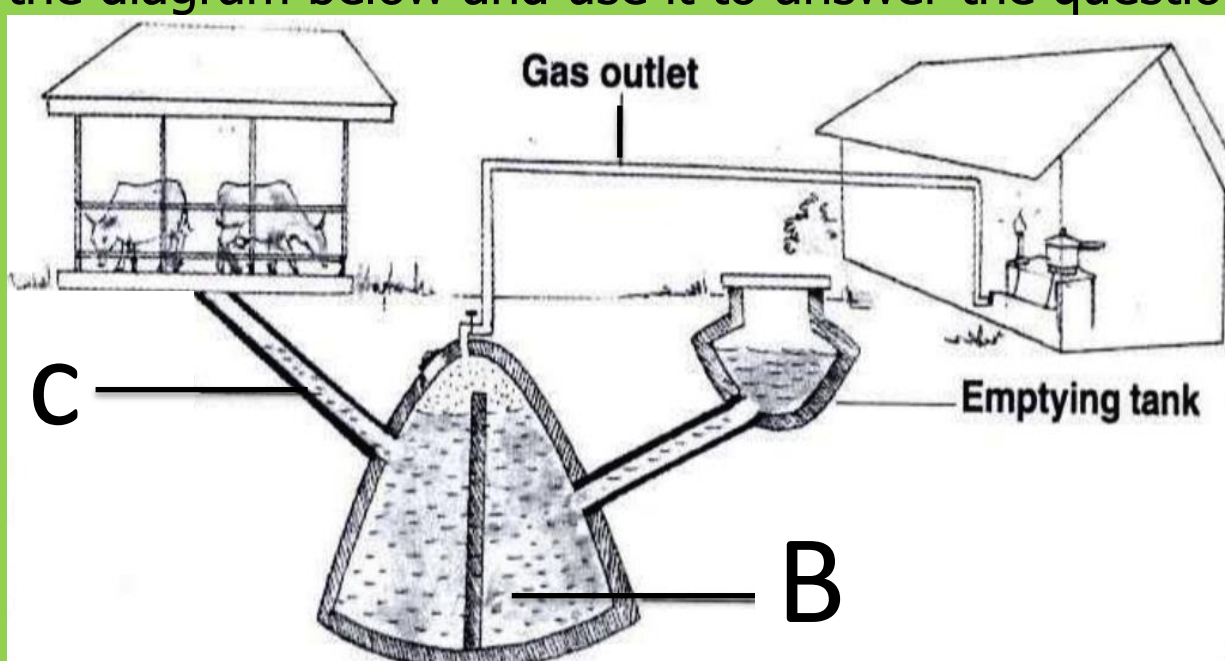
a) Name the stage of life cycle marked with letter **X**.

- ✓ **Eggs**

b) Which amphibian has the life cycle shown above?

- ✓ **Frog**

- c) State the difference in terms of breathing between stage **Y** and stage **Z**.
 ✓ **Stage Y use gills for breathing while stage Z use lungs and moist skin for breathing**
- d) Name any other example of an amphibian in the environment.
Toads //salamanders//newts//caecillians
- 43a) Give any other organ of the circulatory system apart from the heart.
 ✓ **Blood vessels//blood**
- b) Give any two ways in which the human heart is adapted to its function.
 ✓ **Made up of cardiac muscles to with stand high blood pressure**
 ✓ **The left side of the heart is thicker than the right side to pump blood at a higher pressure.**
 ✓ **The heart has the septum that prevents oxygenated blood from mixing with deoxygenated blood**
 ✓ **Muscles of the heart has the ability to relax and contract when pumping blood**
 ✓ **The heart has the valves to prevent the back flow of blood**
- c) Which blood component help in blood clotting?
 ✓ **Platelets**
- 44a) What is meant by the term "**excretion**"
 ✓ **The process by which waste products of metabolism are removed from the body**
 ✓ **The process by which toxic waste materials are removed from the**
 ✓ **body//the process by which waste products are removed from the body**
- b) Mention two ways excretion is important in the body.
 ✓ **Helps the body to get rid of waste products**
 ✓ **Maintains homeostasis**
 ✓ **Help in temperature regulation**
- c) Mention one excretory product released by both the skin and the kidney.
 ✓ **Water//salt**
45. Study the diagram below and use it to answer the questions that follow.



- a) Give the function of part marked **C**.
 ✓ **For inserting in plant and animal matter**
- b) Mention two materials that can be put in part marked **B**.
 ✓ **Cow dung//plant residues//animal urine/banana peelings**

- c) What is the role of bacteria in part marked **B**?
- ✓ **For fermenting the materials in B.**
- 46a) State one type of stem to plants.
- ✓ **Upright stems//climbing stems//underground stems**
- b) Give a reason to why some plants climb others.
- ✓ **To get sunlight//To get extra support//to get support**
- c) Mention two methods plants use to climb others.
- ✓ **Clasping//twinning//use of tendrils//use of hooks.**
- 47a) Which method of grazing cattle involves the farmer to tie a cow on pegs or trees using ropes?
- ✓ **Tethering method.**
- b) State any one advantage of the above method of grazing cattle.
- ✓ **It is cheap**
 - ✓ **Less labour is required**
 - ✓ **Cattle cannot stray and destroy crops**
- c) Give any two disadvantages of grazing cattle using the above method of grazing cattle
- ✓ **Animals do not get enough exercise**
 - ✓ **The ropes may easily strangle the animal**
 - ✓ **Only few animals can be kept**
 - ✓ **Animals can be easily stolen**
 - ✓ **Animals can easily be attacked by predators**
- 48a) Mention one physical process involved in the distillation method of making alcohol.
- ✓ **Evaporation//Condensation**
- b) Give a reason why the delivery tube is passed through cold water during the distillation method of making alcohol.
- ✓ **To condense the alcohol vapour**
- c) Mention two ways alcohol is important to the medical industry.
- ✓ **Used as a disinfectant to clean the wounds**
 - ✓ **Used for sterilizing medical instruments**
49. The diagram below shows a certain message which a doctor gave to Mukisa to go and take. Use it carefully to answer the questions that follow.



- a) What name is given to the information written on the essential drug above?
- ✓ **Drug prescription**
- b) If the patient took the drug above in the morning at 7:00am, at what time of the day will the patient be required to take the drug again?
- 1Day = 24hrs**
Hours = $24 \div 3$
= 8hrs
The patient will take the drug at 2:00pm.

c) Mention one danger of taking drugs from local drug shops.

- ✓ ***One may buy expired drugs//One may buy contaminated drugs//The drugs may not be properly prescribed***

50a) How are horsetails similar to ferns in terms of reproduction?

- ✓ ***Both reproduce by means of spores***

b) Which group of non – flowering plants reproduces by means of seeds?

- ✓ ***Conifers//coniferous plants//seed bearing non – flowering plants***

c) Mention any two examples of non – flowering plants that reproduces by means of seeds.

- ✓ ***Pine//cypress//podo//cycads//fir***

51a) Give any two ways in which market is a unifying factor in farming.

- ✓ ***Used for selling market products***
- ✓ ***Farmers buy animal feeds from markets***
- ✓ ***Farmers buy some tools from markets.***

b) Apart from market , give any two other requirements for starting a farm.

- ✓ ***Capital// land// labour//source of water***

52a) How does chlorine make water safe for drinking?

- ✓ ***By killing germs in water***

b) Give one other method of making water safe for drinking apart from chlorination.

- ✓ ***Flouridation//boiling***

c) Why is water obtained by distillation not recommended for drinking?

- ✓ ***Has no mineral salts//lacks mineral salts***

d) Mention any one use of water obtained by decantation at home.

- ✓ ***For washing clothes//mopping the house// for drinking if treated with permitted chemicals or boiled***

53a)Write down any two factors that may lead to teenage pregnancy .

- ✓ ***Peer pressure into early sex//failure to provide basic needs by parents//rape//defilement//lack of proper guidance and counseling by parents//group influence***

b) Give any two consequences of teenage pregnancy.

- ✓ ***School drop outs//rejection by parents(stigmatization)//causes birth complications//the young parents may fail to provide basic needs to the parents//forced marriage***

54a) Give the meaning of the word "Ventilation"

- ✓ ***This is the replacement of warm air by fresh air***

b) What is the use of ventilators on a house?

- ✓ ***To let out stale air//to let out warm used air.***

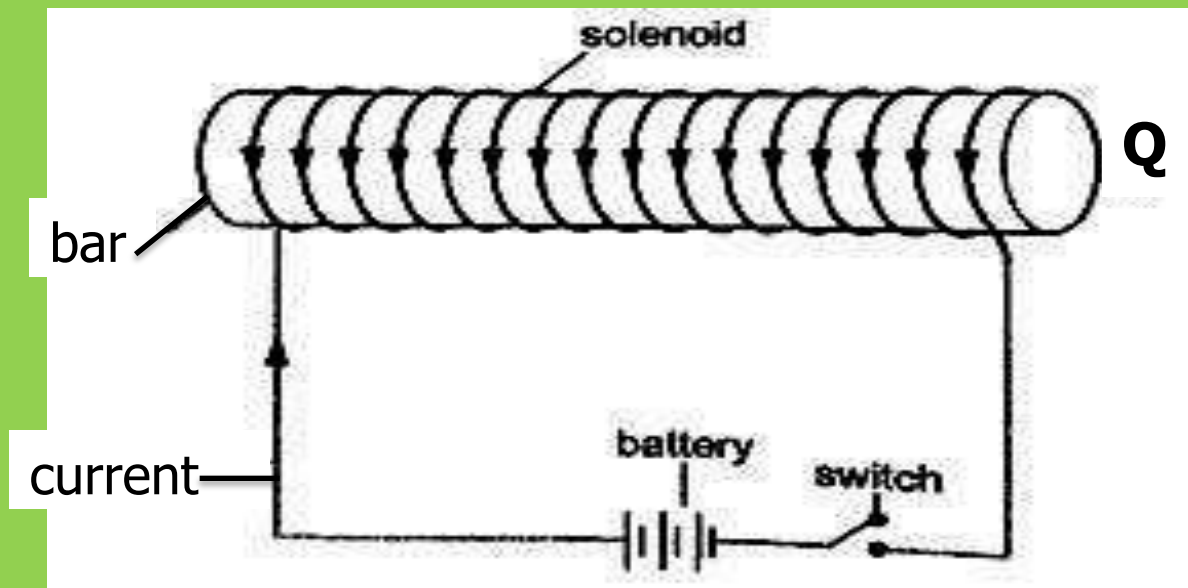
c) Give a reason why ventilators are put on top of doors and window?

- ✓ ***Ventilators let out stale air which is less dense while doors and windows let in fresh air which is more dense than stole air.***

d) Mention any other application of ventilation in the environment.

- ✓ ***Used in lantern lamp***
- ✓ ***Used in charcoal stoves***
- ✓ ***Used in charcoal iron box***

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



a) Name the method of making magnets shown above.

Electrical method reject electric method

b) How many dry cells were used in the above method of making magnets?

3dry cells//three dry cells reject 3 dry sells//three dry sales

c) How many volts were used in the above method of making magnets?

1dry cell \longleftrightarrow 1.5volts

In the diagram we have used 3 dry cells

3 dry cells \longleftrightarrow 3x1.5volts

$$= 3 \times \frac{15}{10}$$

$$= \frac{45}{10}$$

$$= 4.5 \text{ volts}$$

d) Name the pole marked Q.

North Pole.