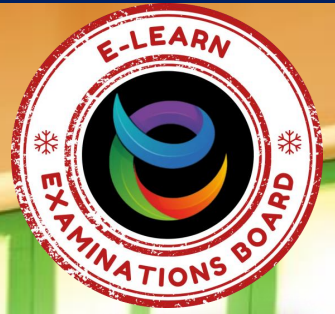
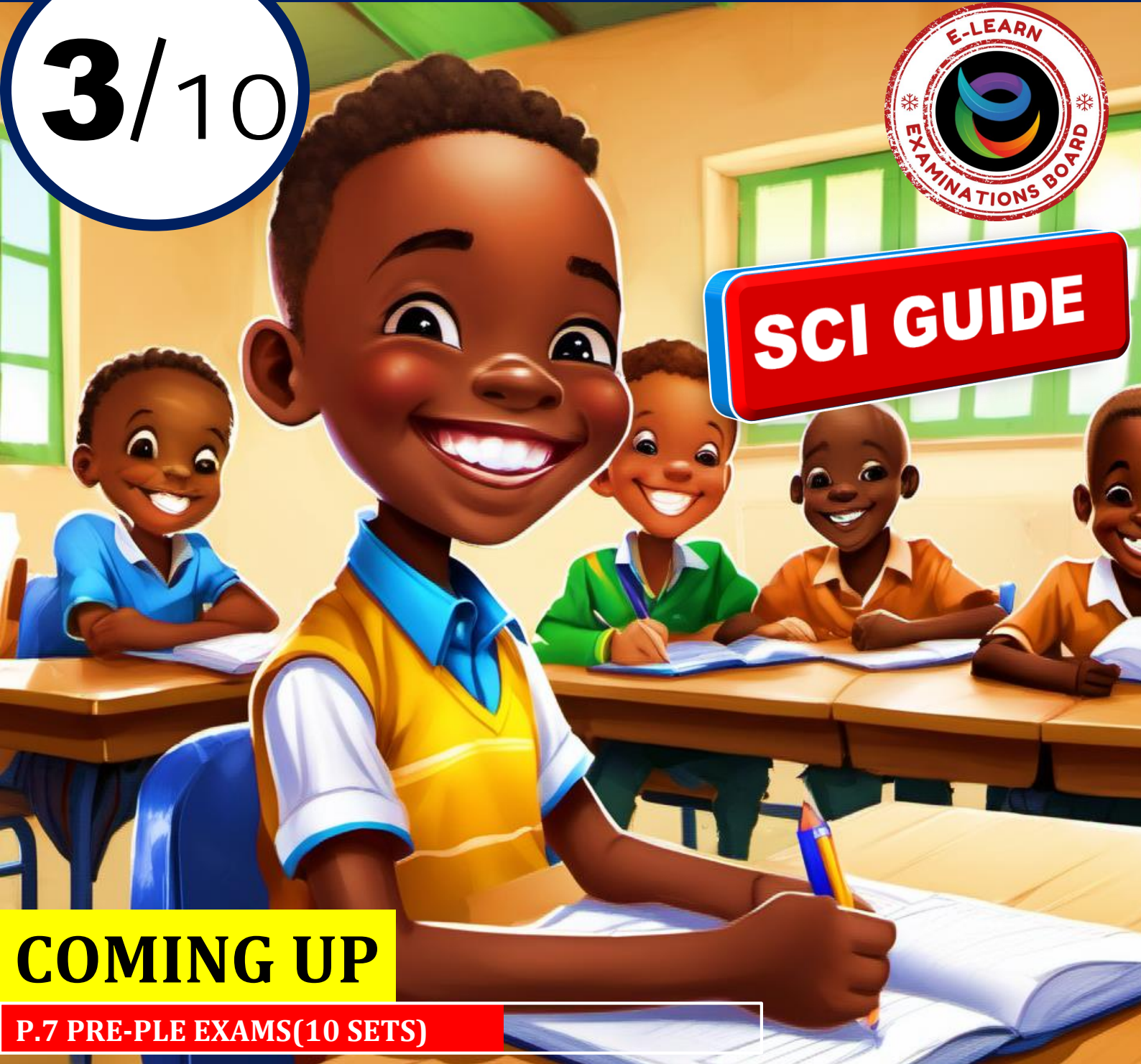


PRE PLE 2024

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SCI GUIDE



COMING UP

P.7 PRE-PLE EXAMS(10 SETS)

NAME:

SCHOOL:



0780-438054

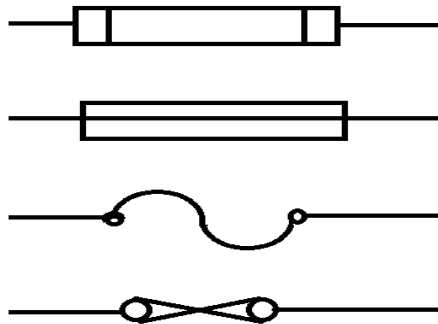


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SECTION A: 40 MARKS

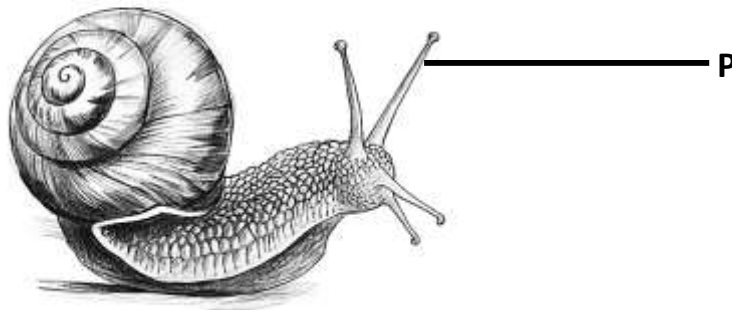
Questions **1** to **40** carry **one** mark each.

1. Name the type cloud which is the furthest in the sky.
✓ **Cirrus clouds**
2. Mention any one way of preventing diseases without using drugs.
✓ **Eating a balanced diet// Dental flossing// Draining still water**
✓ **Doing regular physical exercises //Regular brushing of teeth**
✓ **Boiling water for drinking// Sleeping under treated mosquito nets**
3. Give a reason for mulching banana plantations.
✓ **To conserve soil moisture in a banana plantation.**
✓ **To improve soil fertility hence high yields**
4. Why is a lion not grouped under domestic animals?
✓ **A lion is not tamed (cared for) by man**
✓ **A lion is not kept at home**
5. Write PHC in full.
✓ **Primary Health Care**
6. In the space provided below, draw a symbol of a fuse
Any of the symbols drawn here>>



7. Which nutritional deficiency disease is likely to attack a child who lacks proteins in his body?
✓ **Kwashiorkor**
8. Give any one function of the liver to man.
✓ **To detoxicate/detoxify blood**
✓ **To produce bile which emulsifies/breaks down fats.**
✓ **To delaminate proteins.**
✓ **To store blood**
9. How does a chameleon protect itself from enemies?
✓ **By changing body colour. (camouflaging)**

Study the diagram and answer the questions that follow.



10. Identify any one importance of part marked with letter **P**
 - ✓ **To detect change in temperature of the surrounding.**
 - ✓ **For feeling**
11. Give any one way of controlling mosquitoes at home.
 - ✓ **Draining stagnant water around homes**
 - ✓ **Pouring oil on stagnant water**
 - ✓ **Slashing tall grass around homes**
 - ✓ **Keeping fish in ponds to feed on mosquito larvae**
 - ✓ **Spraying adult mosquitoes**
12. How are feathers useful to birds?
 - ✓ **Feathers insulate the birds.**
 - ✓ **Feathers provide shape to the bird.**
 - ✓ **Feathers keep birds warm**
 - ✓ **Feathers helps birds to fly in air**
13. State any one importance of seed dispersal in the environment
 - ✓ **Seed dispersal prevents plant extinction.**
 - ✓ **Seed dispersal enables plants to colonize new places**
 - ✓ **Seed dispersal prevents overcrowding of plants in an area**
 - ✓ **Seed dispersal reduces competition for water sunlight and carbon dioxide among plants**
14. Define the term germination.
 - ✓ **Germination is the growing of a seed into a seedling.**
15. How are incisor teeth adapted to their function?
 - ✓ **Incisors are chisel shaped for biting food.**

16. What force is reduced by making rough surface smooth?
✓ **Friction. (Frictional force)**
17. How are valves important in blood circulation?
✓ **Valves prevent the backflow of blood.**
✓ **Ensures blood flow in one direction**
18. Name the method that turns sugar added to water into alcohol.
✓ **Fermentation**
19. How can polio be prevented in infants?
✓ **Through immunization.**
✓ **By killing cockroaches which would spread poliomyelitis**
✓ **By drinking boiled water always**
20. Mention one way of increasing the strength of an electromagnet.
✓ **By increasing the voltage.**
✓ **By increasing the number of dry cells.**
✓ **By increasing the number of turns in the coils of the solenoid.**
21. Point out any one importance of demography in a country like Uganda.
✓ **Demography enables a country's government to improve the health standards of people.**
✓ **To plan for health care needs of the population**
✓ **To plan for easy prevention of diseases among its people**
✓ **To plan for maternal and child health care services to people**
✓ **To plan for social services to people**
✓ **To plan for economic development of its people**
✓ **To plan for social security of its people**
22. Cite any one law of reflection of light.
✓ **The incident ray, the reflected and the normal at the point of incidence all lie in the same plane.**
✓ **The angle of incidence is equal to the angle of reflection.**
23. State any one way of preventing rusting of metals.
✓ **Oiling metals**
✓ **Painting metals**
✓ **Galvanizing metals.**
✓ **Alloying metals**
✓ **Greasing metals**
24. Mention one way of controlling ticks in goats.

- ✓ **Dipping goats in acaricides**
- ✓ **Spraying goats with acaricides**
- ✓ **Deticking goats //dusting goats with acaricides**

25. Give one way how a farmer can increase the fertility of the soil.

- ✓ **By mulching //By crop rotation// By adding manure**
- ✓ **By bush fallowing By adding artificial fertilizers//biochar**

Study the diagram below and answer the question that follows.



26. Which farm practice is shown in the diagram above?

- ✓ **Milking**

27. Suggest one way of caring for the human teeth.

- ✓ **By brushing teeth after every meal**
- ✓ **By dental flossing**
- ✓ **By feeding on the balanced diet//foods rich in calcium and phosphorus**
- ✓ **By avoiding opening bottles using teeth**
- ✓ **By avoiding eating too sugary substances**

28. How is the skull an important part in the human body?

- ✓ **The skull protects the brain**

29. What is the role of a queen bee in a hive?

- ✓ **The queen bee lays eggs in the hive.**

30. Name the type of leaf venation shown in the diagram below.



✓ **Network leaf venation. (reticulate venation)**

31. Why do bees visit flowers?

✓ **Bees visit flowers to collect nectar and pollen**

32. How is the propagation of bananas different from that of onions?

✓ **Bananas are propagated by planting suckers while onions are propagated by planting bulbs (onions)**

33. State any one way of promoting proper hygiene of a home.

✓ **Sweeping rubbish in the compound regularly**

✓ **Proper disposal of wastes**

✓ **Burning rubbish regularly**

✓ **Mopping houses regularly**

✓ **Cleaning latrines regularly**

34. Why is water called matter?

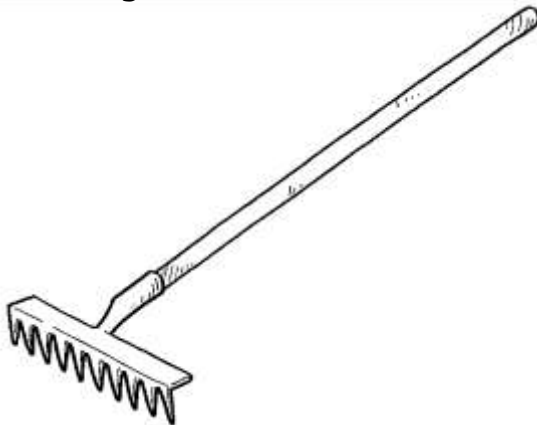
✓ **Water has mass and volume.**

✓ **Water occupies space and has weight.**

35. How do hook worms enter our bodies?

✓ **By penetrating bare feet/skin**

36. How important is the garden tool below to a farmer?



✓ **For collecting dug weeds.**

37. Identify one importance of shadows to people.

✓ **Shadows from trees provide shade to people.**

✓ **Shadows tell time.**

✓ **Shadows tell direction.**

38. Which disease in human beings is caused by bacterium known as shigella?

✓ **Bacillary dysentery//dysentery**

Reject diarrhoea

39. Write down one way animals depend on plants.

✓ **Animals feed on plants.**

✓ **Animals get oxygen for respiration from plants.**

✓ **Animals use plants as shelter**

✓ **Animals get protection from plants**

40. Give any one example of wheel and axle as used in machines.

✓ **Steering wheel//screw driver//egg beaters//doorknob //bicycle pedals//sewing machines//**

SECTION B: 60 MARKS

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

41. (a) What are vertebrates?

✓ **Vertebrates are animals with a backbone**

(b) Mention any two vertebrate animals that use lungs for breathing.

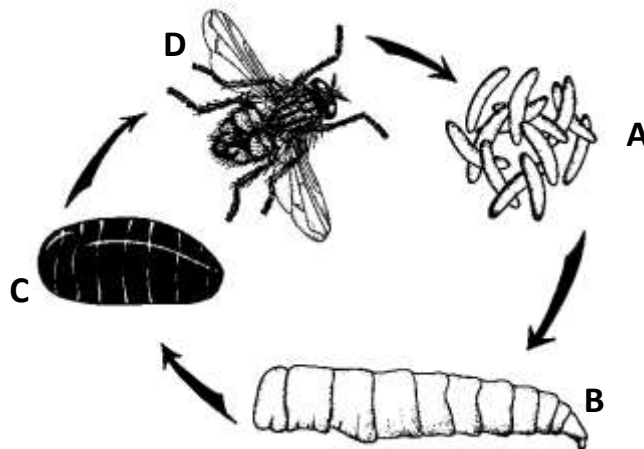
✓ **Mammals**

✓ **Reptiles**

(c) How important is blubber to sea mammals?

✓ **Blubber keeps sea mammals warm.**

42. The diagram below shows the life cycle of a housefly. Use it to answer questions that follow.



(a) Identify the type of life cycle shown in the diagram above.

✓ **Complete life cycle.**

(b) Name the stage marked with letter A.

✓ **Larva stage**

(c) How is stage marked with letter D dangerous to human life

✓ **Stage D spreads germs that cause diarrheal diseases to people.**

✓ **Stage D spreads diarrhoeal diseases to people**

✓ **Stage D spreads germs that cause trachoma**

(d) What name is given to the larva in the life cycle of a housefly?

✓ **Maggot.**

43. (a) What do we call the form of energy that enables us to see objects around us?
 ✓ **Light energy**
- (b) Name any two natural sources of light energy in the environment
 ✓ **Sun// Glow worms// Fire flies //Stars**
- (c) Give any one way how light is useful in our daily life.
 ✓ **Light enables us to see objects around us.**
 ✓ **Light is used in photography**
 ✓ **Light is used in printing and scanning document.**
~~**Reject: light from the sun enables plants to make their own food**~~
44. (a) Mention any two examples of energy resources in the environment
 ✓ **Wind energy// Natural gas (LPG) //Plutonium**
 ✓ **Wood fuels// Biofuels //Uranium// Petroleum**
 ✓ **Animal energy // Coal //Solar energy //Tidal energy //Biogas**
- (b) Give any one practice which pollutes air in the environment.
 ✓ **Bush burning**
 ✓ **Charcoal burning**
 ✓ **Tobacco smoking**
 ✓ **Industrialization**
- (c) How does the use of hydroelectricity useful in the conservation of the environment?
 ✓ **The Use of hydroelectricity reduces the rate of deforestation for wood fuels.**
 ✓ **It doesn't release smoke during cooking.**
45. Breathing is the inhaling and exhaling of air. Study the table below and complete it correctly.

Composition of air	Inhaled air by percentage	Exhaled air by percentage
Carbon dioxide	0.03%	4%
Oxygen	21%	16%
Nitrogen	78%	78%
Rare gases	0.97%	0.97%

46. (a) Give a reason why we give first aid to casualties.
 ✓ **To save life**
 ✓ **To promote quick recovery**
 ✓ **To reduce pain**
 ✓ **To prevent further injuries**
 ✓ **To stop bleeding**

(b) State any two materials used in giving first aid.

- ✓ **Bandage//Arm sling//Surgical spirit**
- ✓ **Razorblade//Splints//Plaster //gauze**

(c) State one quality of a good first aider.

- ✓ **A good first aider should be knowledgeable**
- ✓ **A good first aider should be quick**
- ✓ **A good first aider should be sympathetic**

47. (a) Name any one dangerous substance found in tobacco.

- ✓ **Nicotine / tar**

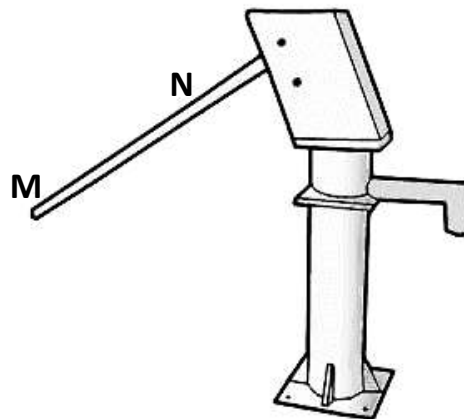
(b) Mention two types of smoking.

- ✓ **Passive smoking**
- ✓ **Active smoking**

(c) Give any one effect of smoking to the health of a pregnant woman.

- ✓ **Smoking leads to miscarriage**
- ✓ **Smoking leads to still births**
- ✓ **Smoking leads to premature births**
- ✓ **Smoking leads to underweight babies when born**

48. The diagram below shows a simple machine, use it to answer questions that follow.



(a) Name the simple machine shown above.

- ✓ **Borehole**

(b) Identify the class of lever to which the above machine belongs.

- ✓ **First class levers (1st class levers)**

(c) Which of the following letters on the machine above shows the position where less effort can be applied to do work?

- ✓ **Position M**

(d) Write the energy resource obtained by the use of the above machine

✓ **Water**

49. (a) Give the main reason for keeping the following types of cattle.

(i) Dairy cattle

✓ **For milk production**

(ii) Beef cattle

✓ **For meat production**

(b) Identify any one disease of cattle.

✓ **Heart water / east coast fever / Anaplasmosis / red water / rinderpest / Foot rot/brucellosis//tuberculosis//pneumonia//coccidiosis**

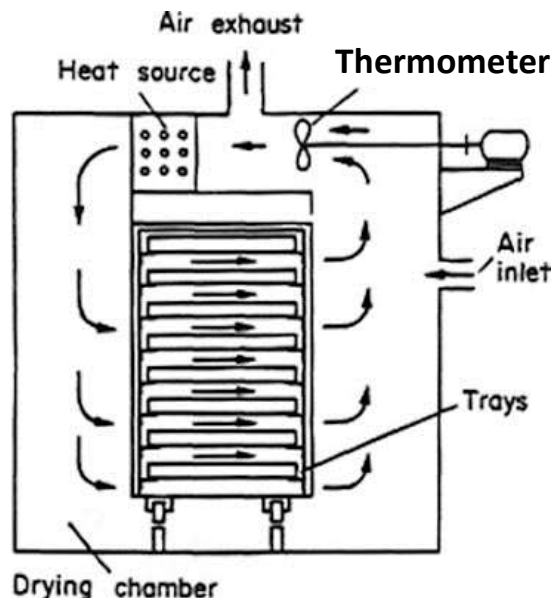
(c) How is a lactometer important to a cattle farmer?

✓ **A lactometer detects the presence of added water in the milk.**

✓ **It detects the presence of fats in the milk**

✓ **Measures density of milk.**

50. Below is a diagram of a structure on a poultry farm. Use it to answer the questions that follow.



(a) What name is given to the above structure?

✓ **An incubator**

(b) State the function of the thermometer in the structure above.

✓ **To measure the temperature in the incubator.**

(c) Why is the above structure not used by most farmers in Uganda?

✓ **It is expensive to manage**

✓ **It is tiring to turn the eggs.**

(d) State any one reason why an egg may fail to hatch under favourable conditions.

- ✓ **When an egg has no egg yolk**
- ✓ **When an egg yolk has double egg yolks**
- ✓ **When an egg is cracked// When an egg has no airspace.**

51. (a) A stone has a mass of 30 g. Find its volume if its density is 10 g/cc. (2marks)

Given

M = 30g

D = 10g/cc

V = ?

Using $V = \frac{m}{D}$

$$V = \frac{30g}{10g/cc}$$

V = 3cc

(b) Identify one method used in finding the volume irregular objects like a stone.

- ✓ **Displacement method**

(c) Give a reason why some objects float on water.

- ✓ **Some objects are less dense than water**
- ✓ **Their density is lower than that of water**

52. Below is a diagram of a fungus. Use it to answer the questions that follow.



(a) Name the fungus shown above

- ✓ **Mushroom**

(b) How does the fungus above reproduce?

- ✓ **By means of spores.**

(c) Why can't the fungus above make its own food?

- ✓ **The above fungus lacks chlorophyll**

(d) How is the above fungus useful to man?

- ✓ **The above fungus is eaten as food.**

53. (a) Define the following terms as used in sound.
- (i) Volume
 - ✓ **Volume is the loudness or softness of sound.**
 - (ii) Echo.
 - ✓ **An echo is a reflected sound**
- (b) Which body organ uses sound as a form of energy to perform its function?
- ✓ **An ear**
- (c) Mention any one natural source of sound in the environment.
- ✓ **Thunder // Birds singing // Human beings // fast flowing water**
54. (a) Give any two factors which affect the rate of transpiration.
- ✓ **Temperature**
 - ✓ **Humidity**
 - ✓ **Size of leaf**
 - ✓ **Speed of wind**
 - ✓ **Number of leaves on a plant**
 - ✓ **Number of stomata on a leave**
- (b) How important is transpiration to plants?
- ✓ **Transpiration cools the plants.**
 - ✓ **Transpiration enables plants to absorb more water from the soil.**
- (c) Name the process in animals that similar to transpiration
- ✓ **Sweating**
55. Match the following correctly.
- | | |
|--------|----------------|
| List A | List B |
| Skin | Bile pigments |
| Kidney | sweat |
| Lungs | Urine |
| Liver | carbon dioxide |
- ✓ **Skin-sweat**
 - ✓ **Kidney -urine**
 - ✓ **Lungs- carbon dioxide**
 - ✓ **Liver- Bile pigments**

END