

PRE PLE 2024

3/10



SCI GUIDE

COMING UP

P.7 PRE-PLE EXAMS(10 SETS)

NAME:

SCHOOL:



0780-438054

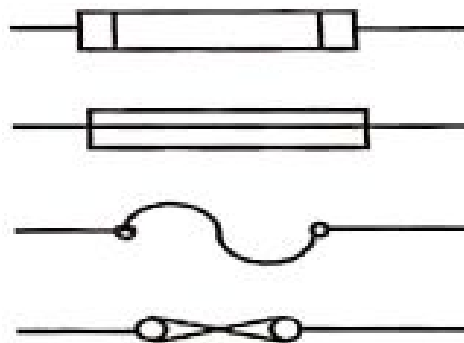


0708-43805

SECTION A: 40 MARKS

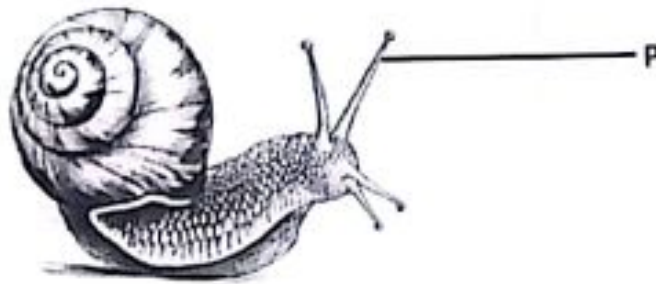
Questions 1 to 40 carry **one** mark each.

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.

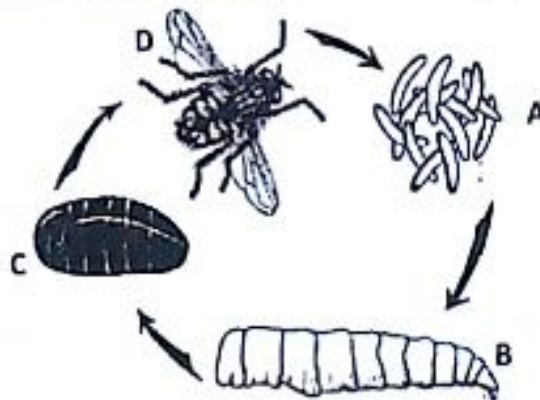
✓ **Animals feed on plants.**

- ✓ 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 home.**
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 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**

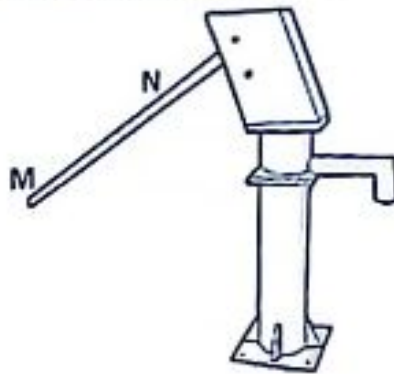
(b) Mention two types of smoking.

- ✓ **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**

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

(i) Dairy cattle

✓ **For milk production**

(ii) Beef cattle

✓ **For meat production**

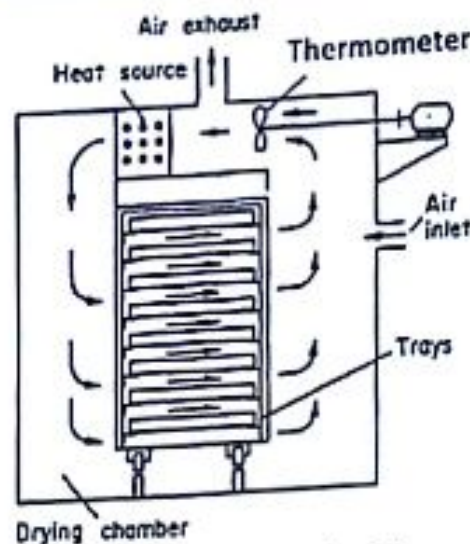
(b) Identify any one disease of cattle.

✓ **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 question 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.

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

Given

$$M = 30g$$

$$D = 10g/cc$$

$$V = ?$$

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

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

$$V = 3cc$$

(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 leaf**
- (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



THE E-LEARN EXAMINATIONS BOARD

P 7 PRE PLE SET THREE / TEN

2024

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.	EMIS No.					Personal No.		

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 10 printed pages altogether.
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		

©2024 e-Learn Examinations Board 0708-438054 / 0780-438054

SECTION A: 40 MARKS

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

1. Name the type cloud which is the furthest in the sky.

.....

2. Mention any **one** way of preventing diseases without using drugs.

.....

Give a reason for mulching banana plantations.

.....

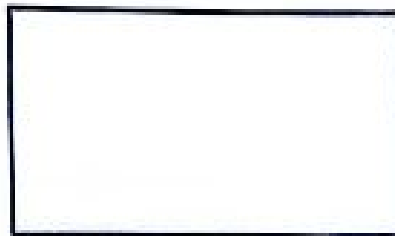
3. Why is a lion not grouped under domestic animals?

.....

4. Write PHC in full.

.....

5. In the space provided below, draw a symbol of a fuse



6. Which nutritional deficiency disease is likely to attack a child who lacks proteins in his body?

.....

7. Give any **one** function of the liver to man.

.....

8. How does a chameleon protect itself from enemies?

.....

Study the diagram and answer the questions that follow.



9. Identify any **one** importance of part marked with letter **P**

.....

10. Give any **one** way of controlling mosquitoes at home.

.....

11. How are feathers useful to birds?

.....

12. State any **one** importance of seed dispersal in the environment

.....

13. Define the term germination.

.....

14. How are incisor teeth adapted to their function?

.....

15. What force is reduced by making rough surface smooth?

.....

16. How are valves important in blood circulation?

.....

17. Name the method that turns sugar added to water into alcohol.

.....

18. How can polio be prevented in infants?

.....

19. Mention **one** way of increasing the strength of an electromagnet.

.....

20. Point out any **one** importance of demography in a country like Uganda.

.....

21. Cite any **one** law of reflection of light.

.....

22. State any **one** way of preventing rusting of metals.

.....

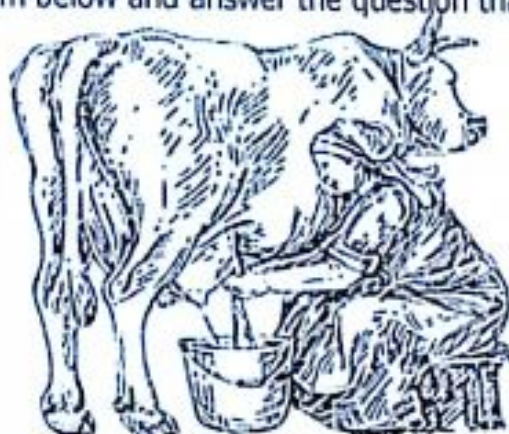
23. Mention **one** way of controlling ticks in goats.

.....

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

.....

Study the diagram below and answer the question that follows.



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

.....

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

.....

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

.....

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

.....

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



.....

30. Why do bees visit flowers?

.....

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

.....

32. State any **one** way of promoting proper hygiene of a home.

.....

33. Why is water called matter?

.....

34. How do hook worms enter our bodies?

.....

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



36. Identify **one** importance of shadows to people.

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

38. Write down **one** way animals depend on plants.

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

SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

40. (a) What are vertebrates?

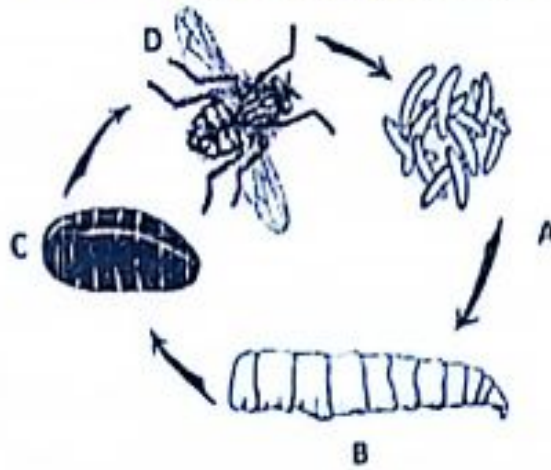
- (b) Mention any **two** vertebrate animals that use lungs for breathing.

(i).....

(ii).....

- (c) How important is blubber to sea mammals?

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.

.....

(b) Name the stage marked with letter A.

.....

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

.....

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

.....

42. (a) What do we call the form of energy that enables us to see objects around us?

.....

(b) Name any **two** natural sources of light energy in the environment

(i).....

(ii).....

(c) Give any **one** way how light is useful in our daily life.

.....

43. (a) Mention any **two** examples of energy resources in the environment

- (i).....
- (ii).....

44. (b) Give any **one** practice which pollutes air in the environment.
-

- (c) How does the use of hydroelectricity useful in the conservation of the environment?
-

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		4%
	21%	16%
Nitrogen	78%	
Rare gases		0.97%

46. (a) Give a reason why we give first aid to casualties.
-

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

- (i).....
- (ii).....

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

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

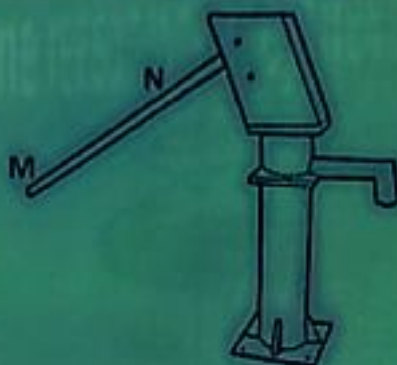
(b) Mention **two** types of smoking.

(i).....

(ii).....

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

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



(a) Name the simple machine shown above.

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

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

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

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

- (c) State the function of the thermometer in the structure above.
- (d) Why is the above structure not used by most farmers in Uganda?

21. Below is a diagram of a simple greenhouse. Use the drawing to answer the question that follow.



- (a) What main problem does the above structure solve?
- (b) State the function of the thermometer in the structure above.
- (c) Why is the above structure not used by most farmers in Uganda?

(d) State any ONE reason why a farmer may still prefer to use a favourable agro-climate.

40) A stone has a mass of 30 g. Find its volume if its density is 10 g/cc. (02marks)

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

.....

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

.....

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



(a) Name the fungus shown above

.....

(b) How does the fungus above reproduce?

.....

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

.....

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

.....

Turn Over

53. (a) Define the following terms as used in sound.

(i) Volume

(ii) Echo.

(b) Which body organ uses sound as a form of energy to perform its function?

.....

(c) Mention any **one** natural source of sound in the environment.

.....

54. (a) Give any **two** factors which affect the rate of transpiration.

(i)(ii).....

(b) How important is transpiration to plants?

.....

(c) Name the process in animals that similar to transpiration

.....

55. Match the following correctly.

List A

Skin

Kidney

Lungs

Liver

Skin

Kidney.....

Lungs.....

Liver

List B

Bile pigments

Sweat

Urine

carbon dioxide