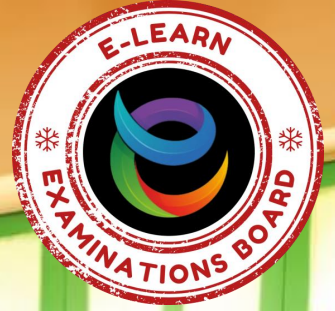


# PRE PLE 2024

1/10



**SCI GUIDE**



**COMING UP**

**P.7 PRE-PLE EXAMS(10 SETS)**

**NAME:** .....

**SCHOOL:** .....



**0780-438054**



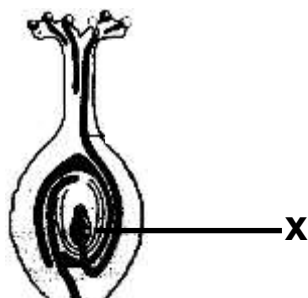
**0708-43805**

## SECTION A: 40 MARKS

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

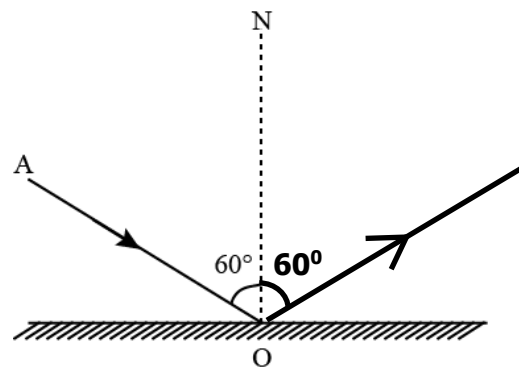
1. State any **one** habit that promotes personal hygiene.
  - ✓ **Dental Flossing// Brushing teeth regularly//Rinsing the mouth after every meal//Regular bathing// Regular combing of hair//washing clothes**
  - ✓ **Grooming finger nails and toenails//washing clothes**
  - ✓ **Shaving hair (pubic hair under the armpits/on the head)**
2. How is the reproduction in conifers different from that in other nonflowering plants?
  - ✓ **Conifers reproduce by means of seeds while other non-flowering plants reproduce by means of spores.**
3. Explain how plants are used as energy resources in the environment?
  - ✓ **Plants are sources of firewood/ charcoal used for cooking and lighting/Sources of biofuels/bioethanol**
4. Lenita burnt herself with hot porridge. What type of injury did she get?
  - ✓ **Scald**
5. State any **one** function of the ovaries in the female reproductive system.
  - ✓ **Ovaries produce ova(eggs)/produce progesterone/produce oestrogen hormones**

Study the diagram below and use it to answer questions 6 and 7



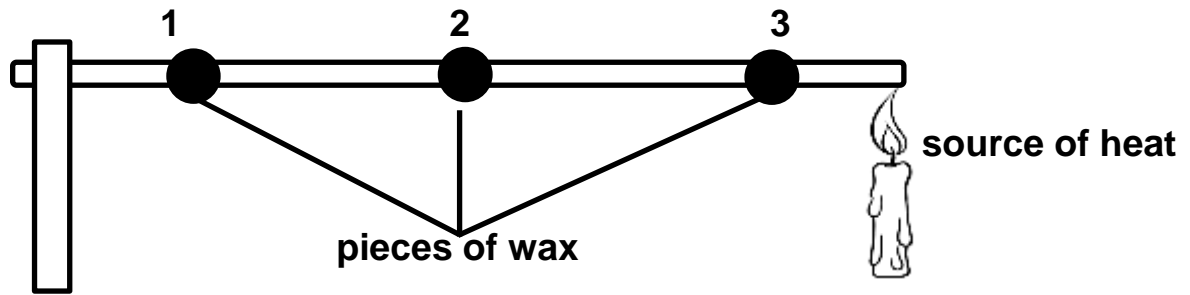
6. What general name is given to the above part of a flower?
  - ✓ **Pistil /carpel**
7. What does part **X** turn into after fertilization?
  - ✓ **Seed/seeds**
8. How does bush burning cause soil erosion?
  - ✓ **Bush burning destroys vegetation cover exposing the soil to agents of soil erosion.**
9. Give **one** characteristic of chemical changes.
  - ✓ **Chemical changes form new substances//new substances formed are irreversible (cannot be taken back to their original form)**
  - ✓ **Heat is sometimes given off // there is change in weight of substances.**
10. Why should electric wires be properly insulated?

- ✓ **To reduce the risk of electric shock//short circuit/fire outbreak**
  - 11. Why is it advisable to put a solid object in the mouth of a person who has a convulsion?
    - ✓ **To prevent the victim from biting the tongue.**
  - 12. Identify the role of smoke when harvesting **honey** bees.
    - ✓ **Smoke calm bees /makes them dormant.**
    - ✓ **Drives bees away from honey chamber**
  - 13. Identify the childhood immunisable disease that causes muscles of baby to become stiff.
    - ✓ **Tetanus**
  - 14. Name any **one** secondary sex characteristic change that is common to both adolescent boys and girls.
    - ✓ **Growth of pubic hair//growth of hair under the armpits.**
    - ✓ **Sweat glands become more active**
  - 15. How does rural electrification help in the saving of the environment?
    - ✓ **Reduces the rate of deforestation for firewood/wood fuel**
  - 16. Name any **one** method used in family planning.
    - ✓ **Basal body temperature//calendar method//vasectomy//IUDs//Abstinence**
    - ✓ **Tuba ligation //withdraw method//use of condoms**
- Study the diagram below and use it to answer numbers **17** and **18**.



- 17. Complete the diagram above by showing the reflected ray.
- 18. State **one** law of reflection.
  - ✓ **The angle of incidence is equal to the angle of reflection.**
  - ✓ **The incident ray, normal ray and reflected ray at the point of incidence all lie on the same plane.**
- 19. Which blood cells are attacked by plasmodia germs?
  - ✓ **Red blood cells**
- 20. What is the breeding place for mosquitoes?
  - ✓ **Still water// stagnant water**
- 21. Name any **one** example of farm record a dairy farmer can keep on his farm.
  - ✓ **Production record // feeding record// health record//sales record**
- 22. How do we call a turning point of a machine?
  - ✓ **Pivot/fulcrum**

The diagram below shows a method of heat transfer in matter. Use it to answer questions **23** and **24**.



23. Name the method of heat transfer shown in the diagram above.  
✓ **Conduction /heat transfer by conduction**
24. Which piece of wax will fall off the metallic rod first?  
✓ **Piece of wax 3 (this is because it is closest to the source of heat).**
25. State any **one** characteristic of insect pollinated flowers.  
✓ **They have brightly coloured petals//good smell or scent**  
✓ **They have nectar//they produce light and small pollen.**  
✓ **They are big in size.**
26. What is the importance of leaving telephone and electric wires loosely fixed between the poles?  
✓ **To give room for contraction on cold days.**
27. State **one** way of controlling poultry vices in a poultry farm.  
✓ **Keeping poultry houses clean and dry/debeaking/placing perches for birds to play and rest//removing broken eggshells from poultry houses.**  
✓ **Avoid overcrowding of poultry//hanging green vegetables to keep poultry busy.**
28. Identify the part of air needed for respiration to take place.  
✓ **Oxygen /O<sub>2(g)</sub>**
29. How does the boiling of water make it safe for drinking?  
✓ **Boiling kills germs**
30. Give **one** way termites depend on soil.  
✓ **Termites use soil to build anthills/it is a home for termites/feed on soil**  
✓ **For protection**
31. Which component of an electric circuit melts in order to break the circuit?  
✓ **fuse**
32. Mention the method of harvesting trees shown below.



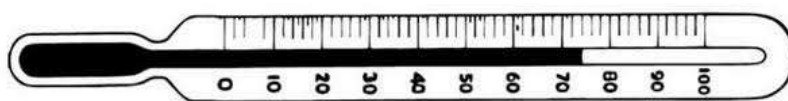
## Lopping method

33. How does poor feeding affect the production of milk in lactating cows?  
✓ **It lowers the volume of milk produced.**
34. Name the set of teeth that develops in a two year's child mouth.  
✓ **Milk set**
35. Which advise can you give to a mother whose child is suffering from Scurvy?  
✓ **To feed her baby on foods rich in vitamin C**  
✓ **To feed her baby on a balanced diet.**
36. Identify **one** solute used to make ORS.  
✓ **Salt /sugar**
37. State any **one** function of the liver in the body.  
✓ **Regulates blood sugar levels//carries out detoxification**  
✓ **Stores vitamins//produces bile juice//excretes bile**
38. How is the role of gills in a fish different from those of a mushroom?  
✓ **Gills in fish are used for breathing while gills in mushrooms are used for producing and dispersing spores**
39. Give any **one** example of a crop pest.  
✓ **Monkeys //rats//white flies//aphids//squirrels**
40. Identify any **one** disease that affects both poultry and rabbits.  
✓ **Pneumonia//coccidiosis**

## SECTION B: 60 MARKS

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

41. (a) Give any **one** example of a legume.  
✓ **Soya beans //cow peas// mimosa//ground nuts // peas**
- (b) Which gas is used by legumes to form nitrates in the soil?  
✓ **Nitrogen**
- (c) What food value do we get from leguminous plants?  
✓ **Proteins**
- (d) Give any **one** characteristic of leguminous plants.  
✓ **Legumes store food in pods//have root nodules on their roots**
42. The diagram shows a clinical thermometer. Use it to answer the questions that follow:



- (a) What is the use of the above instrument to a health worker?
- ✓ **For measuring the human body temperature.**
- (b) Give the importance of a kink on a clinical thermometer.
- ✓ **A kink prevents the backflow of mercury.**
- (c) Why do health workers shake the above thermometer before using it to another person?
- ✓ **To restart the clinical thermometer //To reset the clinical thermometer**
- ✓ **To draw the mercury back to the bulb for accurate reading.**
- (d) Mention any **one** part of the body where a clinical thermometer is put to record the body temperature.
- ✓ **Under the tongue//anus//under the armpits//in the mouth//in the vagina**
43. Name the blood component that carries out the following functions.
- (a) Body defence.
- ✓ **White blood cells**
- (b) Carrying of oxygen.
- ✓ **Red blood cells**
- (c) Clotting of blood
- ✓ **Blood platelets**
- (d) Carrying of digested food.
- ✓ **Blood plasma**
44. (a) Identify **one** condition necessary for rusting to take place.
- ✓ **Oxygen /O<sub>2(g)</sub>//moisture//water**
- (b) State **one** way of preventing rusting in garden tools.
- ✓ **Galvanizing them// keeping them in cool dry places//painting them**
- (c) How are the following garden tools used during farming activities?
- (i) Forked hoe.
- ✓ **For digging hard/stony soils**
- (ii) Secateurs.
- ✓ **For pruning crops.**
45. Study the life cycle of an insect below and use it to answer the questions about it.



- (a) Identify the insect with such life cycle.

- ✓ **Tsetse fly**
    - (b) Name any **one** disease spread by the insect named in (a) above.
  - ✓ **Sleeping sickness//nagana//trypanosomiasis**
    - (c) List down **two** other examples of insects that are vectors.
  - ✓ **Houseflies //lice ticks //mosquitoes//cockroaches**
  - ✓ **Black fly or simulium fly//Jinja fly//rat fleas//housefly**
46. (a) Identify **one** method used in production of alcohol.
- ✓ **Fermentation //distillation**
    - (b) Name **one** body organ that is greatly affected by alcohol.
  - ✓ **Liver//Brain**
    - (c) State **one** effect of alcohol to an individual.
  - ✓ **It causes liver cirrhosis//damages the liver//brain//leads to self-neglect**
  - ✓ **Alcohol leads to poverty**
    - (d) Write down one factor that leads to alcoholism.
  - ✓ **Peer influence //desire to fit in groups//too much excitement//stress**
  - ✓ **Extreme sorrow**
47. (a) Give any **one** component of the soil.
- ✓ **Humus //water//air //living organisms//rock particles**
  - ✓ **Dissolved mineral salts**
    - (b) Name the type of soil that has rough particles.
  - ✓ **Sand soil**
    - (c) How are the following organisms useful to the soil?
      - (i) Earthworms
        - ✓ **Earthworms aerate the soil.**
        - ✓ **Earthworms improve on soil fertility.**
      - (ii) Bacteria.
        - ✓ **Help in soil formation**
48. Study the diagram below and use it to answer the questions about it.



- (a) Name the simple machine illustrated above
- ✓ **scissor**
  - (b) Why is the above machine grouped under first class levers?

✓ **The pivot is in between the load And effort**

(c) Name any **one** other example of machine that can be placed in the same class of levers like the one above.

✓ **Seesaw //borehole //pliers ////crow bars//pincers //claw hammer**

(d) State any **one** way how machines simplify work.

✓ **By increasing speed during work//by reducing the effort needed to do work**

✓ **By changing the direction of forces**

49. Match the items in A with those in B correctly.

**A**

Proteins

Vitamin A

Iodine

Iron

**B**

Goitre

Kwashiorkor

Night blindness

Anaemia

(i) Proteins **kwashiorkor**

(ii) Iron **anaemia**

(iii) Vitamin A **Night blindness**

(iv) Iodine **goiter**

50. (a) Identify **one** product got from sheep.

✓ **Fleece(wool)//mutton**

(b) How long is the gestation period of a ewe?

✓ **150 days**

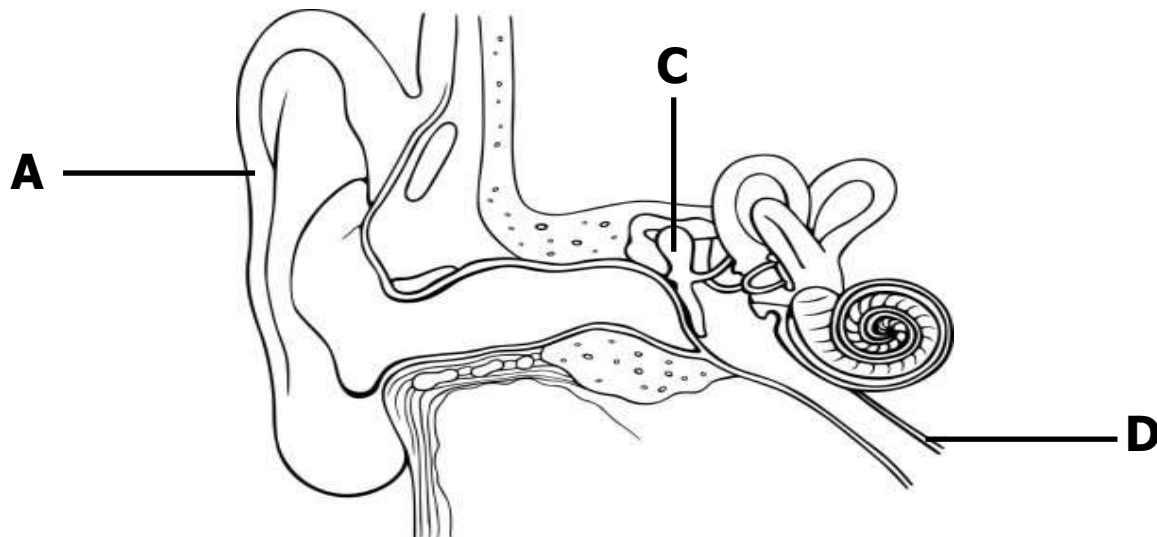
(c) How is docking an important practice in sheep management?

✓ **Docking makes mating easy**

(d) Write down any one ecto parasite that affects sheep.

✓ **Fleas//mites//ticks**

51. 51. Study the diagram below and answer the questions about it.





(a) Name the parts labeled **C** and **D**.

(i) **C ear drum**

(ii) **D Auditory nerves**

(b) State the function of the part marked with letter **A**

✓ **It collects sound waves.**

(c) A part from hearing, give **one** other function of the human ear.

✓ **For body balance/balancing the body**

52. (a) Define an Alloy.

✓ **Is a substance formed from a mixture of two or more metals.**

(b) List down **one** example of an alloy.

✓ **Bronze //brass//solder**

(c) State **one** importance of making alloys.

✓ **To make metals stronger/resistant to corrosion //prevent rusting.**

(e) Why are overhead cables (wires) made of aluminium?

✓ **Aluminium does not rust easily //it is light in weight//it's a good conductor of electricity**

53. Identify the type of weather where the following activities are carried out easily.

(i) Winnowing of cereal crops. – **windy weather**

(ii) Harvesting of cereal crops. – **sunny weather**

(b) How are the following weather instruments useful at a weather station?

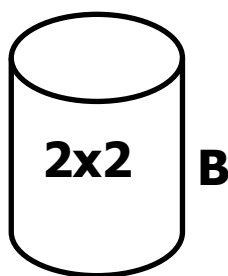
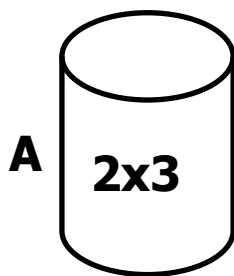
(i) Wind sock **shows the strength of wind**

(ii) Rain gauge **measures the amount of rainfall received in an area**

54. (a) Briefly give the meaning of drug prescription.

✓ **drug prescription is the written information on how to use a certain drug.**

(b) Musa was given a drug to take as shown in A below, when his friend came he removed the drug and kept in another container as shown in **B**



(c) What danger was Musa likely to face if he later used the drug?

✓ **under dose // prolonged recovery due to under dose.**

✓ **Drug resistance due to under dose**

(d) Give **one** condition under which medical drugs are supposed to be kept.

✓ **Out of children's reach//in sealed containers //Cool dry conditions.**

✓ **Away from direct sunlight.**

- (e) Give **one** example of essential drug.
- ✓ **All vaccines (BCG//DPT Heb B//MMR)**
  - ✓ **Panadol *accept all pain killers***
  - ✓ **Condoms *accept all contraceptives***
  - ✓ **Fansidar *accept all curative drugs***
55. (a) Identify any **one** part of the body where each of the following joints are found.
- (b) Ball and socket joint.
- ✓ **Hip //shoulder**
- (d) Hinge joint.
- ✓ **Elbow //knee//phalanges**
- Note:** the phalanges (bones in the fingers and toes) are connected by hinge joints:*
- Interphalangeal joints (IP Joints)*
- Metaphalangeal Joints (MCP Joints)*
- These hinge joints allow flexion(bending and extension(straightening) of fingers and toes. The phalanges are designed to work together with these joints to enable gasping, manipulation and movement.*
- The knee joint is a type of hinge joint, specifically a synovial hinge joint. It connects the femur (thigh bone) allowing for:*
- Flexion (bending)*
  - Extension (straightening)*
- (b) Mention **two** functions of the skeleton to animals.
- ✓ **To protect delicate body organs. *accept specific answers***
  - ✓ **For body movement//they give the body shape**
  - ✓ **They provide surfaces for muscle attachment.**
  - ✓ **The skeleton stores essential minerals like calcium and phosphorus that can be released into the bloodstream when needed.**