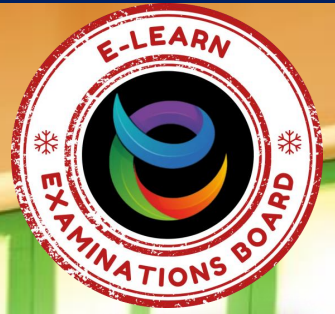
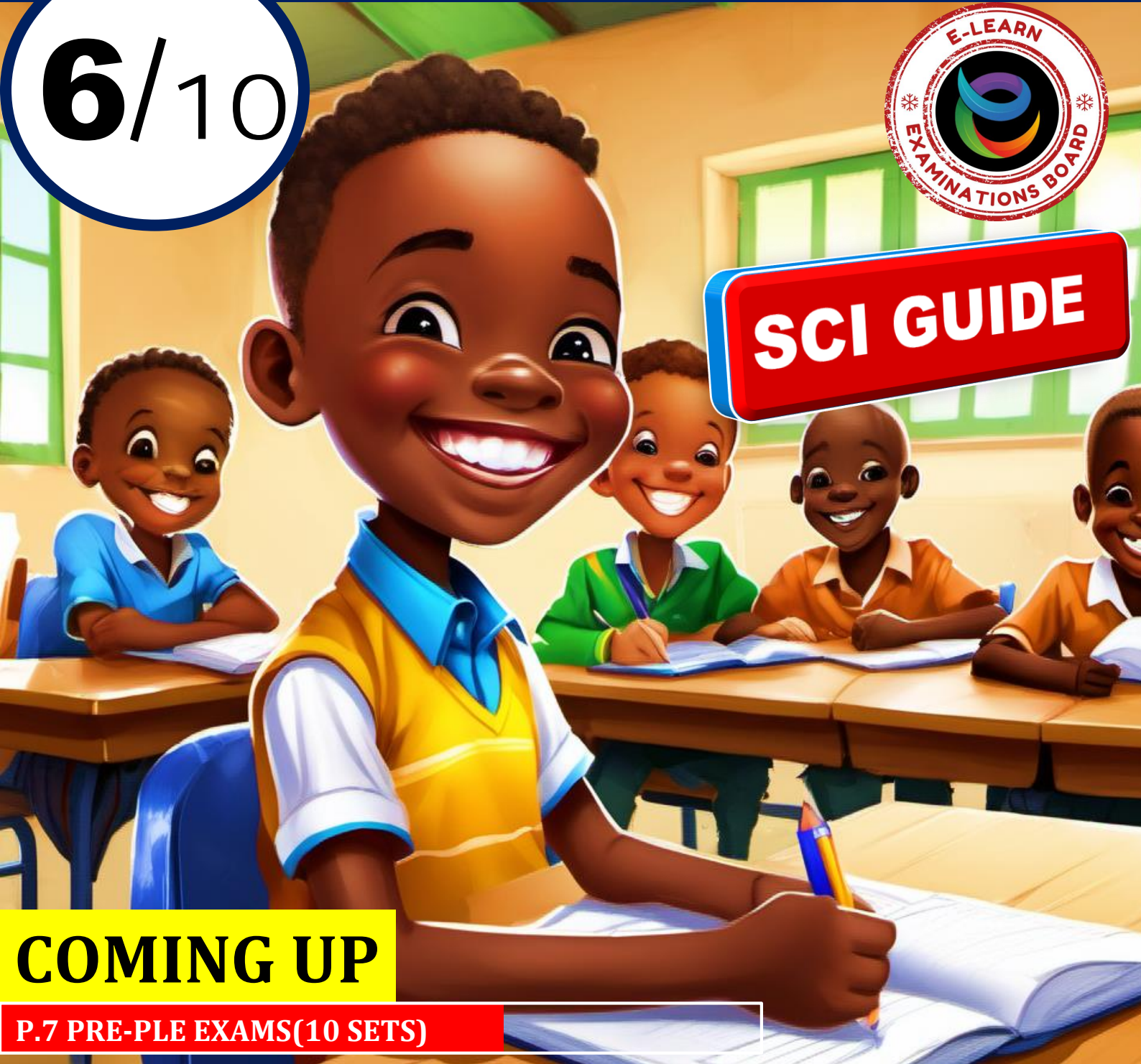


PRE PLE 2024

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SCI GUIDE



COMING UP

P.7 PRE-PLE EXAMS(10 SETS)

NAME:

SCHOOL:



0780-438054

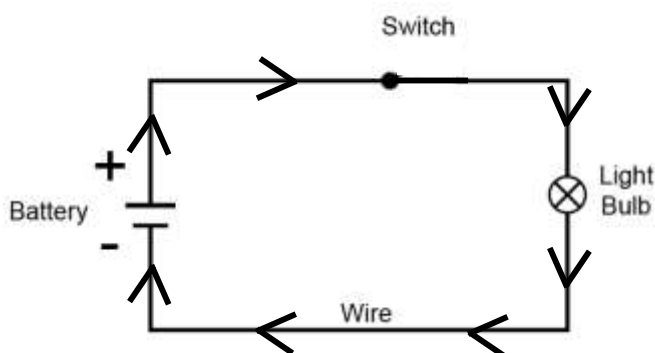


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SECTION A: 40 MARKS

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

1. Name the weather instrument used to measure rainfall.
✓ **Rain gauge.**
2. Give any **one** way a P.7 child can avoid conjunctivitis.
✓ **Washing eyes regularly with clean water to avoid getting infected.**
✓ **Isolation of people with conjunctivitis.**
✓ **Avoid sharing personal handkerchiefs with infected people.**
✓ **Avoid touching your eyes with dirty hands.**
3. Mention any **one** vaccine administered to a baby at birth.
✓ **Oral polio vaccine//BCG vaccine.**
4. How does a guitar produce sound?
✓ **By plucking its strings to vibrate.**
5. Name the form of energy produced by a working filament bulb.
✓ **Light energy// heat energy.**
6. Use arrows to show the flow of current when the switch is closed.



NB:

Current flows from positive to negative terminal.

~~Reject if the switch is not closed~~

~~Reject with one arrow.~~

7. How is the sun used as an energy resource?
✓ **Heat from the sun is used to generate solar electricity.**
✓ **Heat from the sun dries people's harvested crops.**
8. Which component of blood helps in clotting of blood in case of skin cut?
✓ **Blood platelets.**
9. Briefly explain the term "**vertebrates**" in relation to animals.
✓ **Vertebrates are animals with backbone(spine)**
~~(reject: back-bone/backbones)~~
10. Give any **one** importance of liver to a human being
✓ **It produces heat in the body.**
✓ **It produces bile juice that emulsifies fats.**
✓ **It regulates blood sugar level.**
✓ **It excretes bile pigment.**

11. What is the similarity between a fuse and a switch?
✓ **Both break the circuit.**
12. Why do we transplant seedlings in the evening?
✓ **To prevent wilting of seedlings.**
✓ **There is low rate of transpiration in the evening**
13. Calculate the work done a man who lifted a box of 250N through the distance of 2m.
✓ **Work done =force x distance**
= (250N x 2M) J
=500J
~~(reject: without or with wrong units)~~
14. Why should a person preparing ORS wash your hands?
✓ **To prevent contamination of ORS.**
15. Define the term "fracture".
✓ **Fracture is the broken or cracked bone in the body.**
16. In which standard units is magnetic field measured.
✓ **Tesla.**
17. How is a mosquito different from a spider in terms of body parts?
✓ **A mosquito has three main body parts while a spider has four main body parts.**
18. Which organ of the human body is greatly affected by Hepatitis B?
✓ **Liver.**
Use the diagram below is a sperm cell. Use it to answer questions **19**.



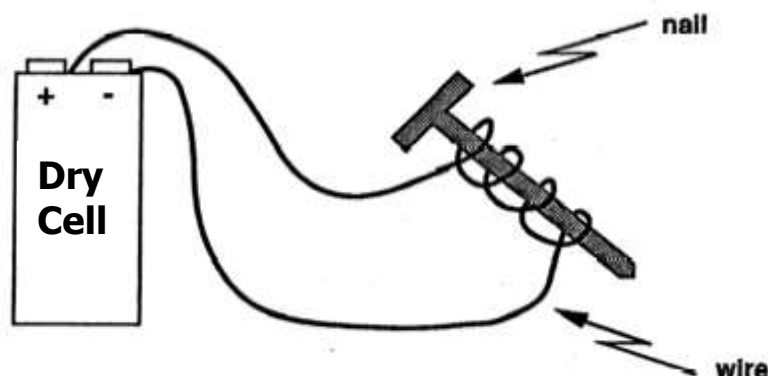
19. Of what importance is the part marked with letter **S**?
✓ **It helps the sperm to swim in semen.**
20. What energy change takes place when wood is burnt during cooking?
✓ **Chemical energy to heat energy.**
✓ **Chemical energy to heat energy to light energy.**
21. How are air sacs adapted to their function in the body of a human being?
✓ **They are thin walled to allow easy diffusion of gases.**
✓ **They are many in number to increase surface area for gaseous exchange.**
✓ **They are surrounded by a dense network of capillaries to supply them with oxygen.**
~~Reject responses without functions~~
22. Give any **one** gas used in a filament bulb.
✓ **Nitrogen//Argon//Neon.**

23. Which immunisable disease in infants has the following signs and symptoms; skin rash, red eyes, fever and loss of appetite?
- ✓ **Measles.**
24. Give any **one** importance of seed dispersal in the environment.
- ✓ **It prevents plant extinction.**
 - ✓ **It enables plants to colonize new areas.**
 - ✓ **it reduces overcrowding among plants.**
25. Give a reason why we can't give first aid to a person who has drowned.
- ✓ **The person has already died.**
 - ✓ **A dead person cannot be given first aid.**
26. In which **one** way can rabbit farmer care for his animals?
- ✓ **By cleaning the hutch regularly.**
 - ✓ **By regular vaccination.**
 - ✓ **By feeding them in time.**
27. Give any **one** way of conserving trees in our environment.
- ✓ **By practicing afforestation.**
 - ✓ **By practicing agro-forestry// By practicing re-afforestation.**
28. Of what importance is a garden tool shown below.



- ✓ **For pruning.**
29. Define the term "**sound**"
- ✓ **Sound is the form of energy that stimulates the sense of hearing in some animals through waves.**
30. What first aid is given to a person who has fainted?
- ✓ **Raise the victim's legs higher than the head.**
31. Which P.H.C element is promoted by bathing daily?
- ✓ **Personal hygiene.**
32. Name the type of digestion which involves the use of teeth.
- ✓ **Mechanical digestion.**
33. How are electric insulators important during cooking at home?
- ✓ **They prevent the user from being burnt.**

The diagram below is about magnetism use it to answer questions that follow.



34. Define magnetization.

✓ **Magnetism is the way of making a magnet.**

35. How can we increase the strength of the electromagnet above?

✓ **By increasing the number of turns on the coil.**

✓ **By increasing the voltage (adding more new dry cells).**

36. Give any **one** excretory waste released by the lungs.

✓ **Carbon dioxide//water vapour.**

37. What is the importance of ventilators on a house?

✓ **Ventilators let out stale air.**

✓ **Ventilators let out warm used up air.**

38. Give the difference in function between insulin and glucagon in human body.

✓ **Insulin lowers blood sugar levels while glucagon rises blood sugar levels.**

39. Write any **one** example of an inclined plane.

✓ **Ladder//staircases//winding road//lump//plank of wood.**

40. Name one natural source of electricity.

✓ **Electric eel**

SECTION B: 60 MARKS

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

41. (a) Define the term "**swarming**"

✓ **Swarming is the massive movement of bees from one place to another looking for a new hive.**

(b) Which main food value is obtained from eating honey?

✓ **Carbohydrates.**

(c) How are bees important to a crop farmer?

✓ **Bees help to pollinate farmers' crops.**

(d) What do bees use protect themselves?

✓ **Sting/stinger.**

42. (a) How is osmosis important to plants?

✓ **Osmosis helps plants to absorb water and minerals from the soil.**

(b) Give any **two** advantages of row planting to a farmer.

✓ **Reduces overcrowding of crops in the garden.**

✓ **Eases weeding//Eases harvesting//Eases spraying.**

(c) What do we call the type of manure obtained from animal droppings?

✓ **Farmyard manure.**

43. (a) What is the immediate result of fertilization?

✓ **Zygote.**

(b) Organize the following in the correct order

Fertilization copulation implantation

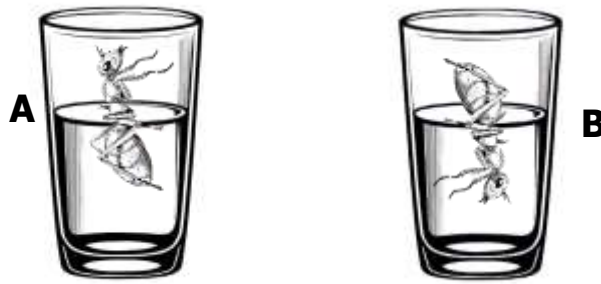
✓ **Copulation fertilization implantation.**

(c) Write the type of fertilization that occurs in the following organisms:

(i) frog: **External fertilization.**

(ii) Human Being: **Internal fertilization.**

44. Below are two insects dipped in two different glasses with water?



(a) Which of the **two** insects will die after some time?

✓ **Insect A.**

(b) Give a reason to support your answer in (a) above.

✓ **Its breathing organs are blocked by water, leading to suffocation.**

(c) Name the breathing organs of each of the following 19

(i) Fish: **gills.**

(ii) Spider: **lung books.**

45. Study the P.H.C activities below and answer questions that follow.

Brushing teeth//Draining stagnant water

Bathing regularly//Feeding on a balanced diet

(a) Which **two** activities promote the hygiene of a person

✓ **Brushing teeth//bathing regularly//feeding on a balanced diet.**

(b) Which of the above activities prevents the spread of malaria.

✓ **Draining stagnant water.**

(c) Give a reason to support your answer in (b) above

✓ **Draining stagnant water destroys the breeding places for female anopheles mosquito that spreads malaria.**

~~**(reject- without female anopheles mosquito)**~~

46. Below is a diagram of a lantern lamp.



(a) Of what importance is the above device at home

✓ **Provides light at home.**

(b) Why is the glass chimney of the above lamp made transparent?

✓ **To allow out light.s**

(c) Give the **two** forms of energy the above device produces.

✓ **Light energy//heat energy.**

47. (a) What is the importance of a strip cup to a cattle farmer?

✓ **It is used to detect the presence of mastitis in the milk.**

(b) Give any **two** examples of parasites in cattle.

✓ **Tick//Liver fluke//Tapeworm//Mite//Tsetse fly.**

(c) How is the numbering practice important to cattle farmers?

✓ **For easy identification.**

48. Below is a diagram of one of the causes of road accidents.



(a) What do we call the above cause of accident?

✓ **Over loading.**

(b) Apart from the above, give any other **two** causes of road accidents.

✓ **Speeding vehicles//Driving under the influence of drugs//Poor roads.**

✓ **Driving vehicles under dangerous mechanical conditions(DMC)**

(c) What is an accident?

✓ **An accident is a sudden happening that causes death or harm to the body**

49. (a) What is friction?

✓ **Friction is the force that opposes motion of objects.**

(b) State any **two** advantages of friction in our daily life.

✓ **Helps people in movement.**

✓ **Helps people to write.**

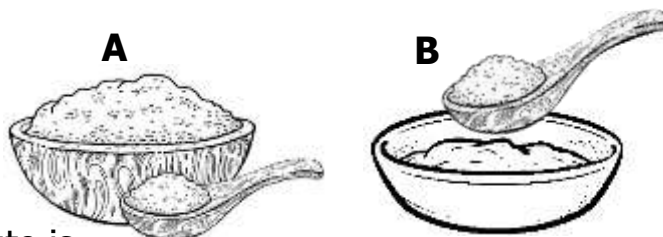
✓ **Helps learners to rub/erase pencil work.**

(c) Give **one** way of reducing friction in machines.

✓ **By lubricating moving parts of machines.**

✓ **By using ball bearings.**

50. Matayo prepared 8 teaspoons of solute **A** and 1 teaspoon of solute **B** to make **ORS**.



(a) Which solute is

(i) A: **sugar.**

(ii) B: **salt.**

(b) Which category of sick people is supposed to be given ORS.

✓ **Dehydrated people.**

(c) Why can't iron filings dissolve in water?

✓ **They are insoluble.**

51. (a) Which instrument is used to measure each of the following

(i) Mass: **beam balance.**

(ii) Weight: **spring balance.**

- (b) Convert;
 (i) 20kg to Newton
 ✓ **20 kg to N**
1 kg = 10N
20 kg = (20x10) N
20 kg = 200N.

- (c) 20N to Kgs
 ✓ **1 N = (1/10) kg**
20 N = (20/10) kg
20 N = 2 kg.

52. (a) What is the importance of thermometers in health management?

- ✓ **It measures the human body temperature.**

(b) Give any **two** reasons mercury is commonly used in a clinical thermometer.

- ✓ **It doesn't stick on the walls of the thermometer.**
 ✓ **It is easily seen // It has a regular expansion.**
 ✓ **It is a good conductor of heat.**

(c) What is the boiling point of pure water in degrees centigrade?

- ✓ **100°C.**

53. (a) Which group of mammals has a dentition as shown in the diagram

below?



- ✓ **Carnivorous mammals.**

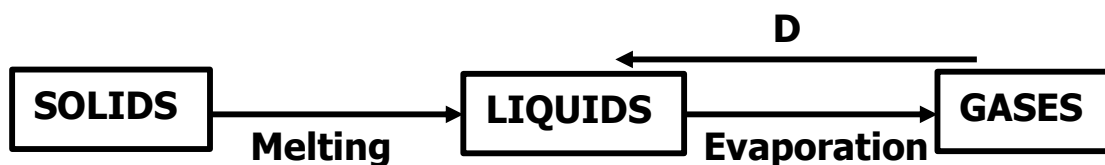
(b) What do such animals feed on?

- ✓ **Flesh.**

(c) Name any **two** animals that chew cud.

- ✓ **Cow // Goat // Bull.**

54. (a) Study the table below and complete the states of matter correctly.



(b) Name the process marked with letter **D**.

- ✓ **Condensation.** ~~(reject: condensation-)~~

55. (a) Where do the following plants store their food?

- (i) Cassava: **swollen underground roots**
 (ii) Sugarcane **stem**

(b) Write **two** problems faced by crop farmers in Uganda today.

- ✓ **Crop Pests // Crop diseases // outbreak of drought // floods**
 ✓ **Shortage of land.**

END