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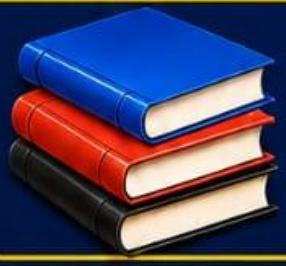
PRE-PLE MERCURY



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PACE SCIE PRE-PLE MERCURY GUIDE 2026

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1. Name the type of injury caused by body contact with hot solid materials.

Burns

2. Give **one** way through which the use of protective clothing promotes food hygiene in markets.

Prevents food contamination by hair and dirt/Prevents hair and dirt from falling falling into food to cause contamination

Prevents germs from clothes getting into food

Prevents sweat from falling into food

Keeps food handlers and sellers from clean so they do not transfer germs and dirt to food.

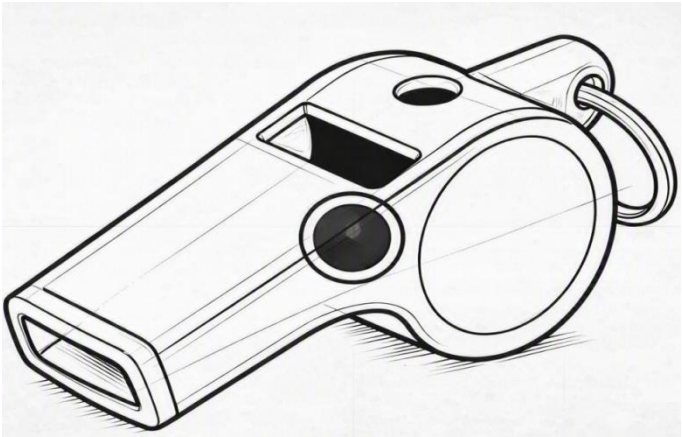
3. Name **one** material that used to make playing materials during a Physical Education lesson.

Polythene bags / Sisal fibre / Banana fibre / Papers

4. State the reason why shop keepers raise sacks of flour on wood in shops.

To prevent moisture from reaching the flour to cause rotting. / To prevent contamination of the flour.

The diagram below shows a musical instrument. Study and use it to answer questions **4** and **5**.



5. Mention the group of musical instruments to which the above belongs

Wind musical instrument.

6. State the way through which sound produced by the instrument above reaches the players during a game of football.

Through sound waves.

7. Mention any **one** activity done by the help of air that exerts pressure**.**

Spraying crops using a knapsack sprayer / Drinking soda using a straw / Pumping air in car tyres / Pumping water in toilets during cleaning

8. Name the injury that occurs on the ligament due to vigorous stretches made during playing time.

Sprain

9. Give any **one** example of a change that forms a permanent new substance.

Burning of wood to ash / Rusting of metals /fermentation/chemical digestion / Decomposition of organic matter / Respiration/souring of milk/

10. Apart from wind, mention **one** other agent of seed dispersal.

Water / Animals

11. Identify any **one** material needed to produce fermented alcohol.

Yeast / Fruit juice / Cereal crop flour

12. Name the method of obtaining clean water that requires a condensation process.

Distillation method

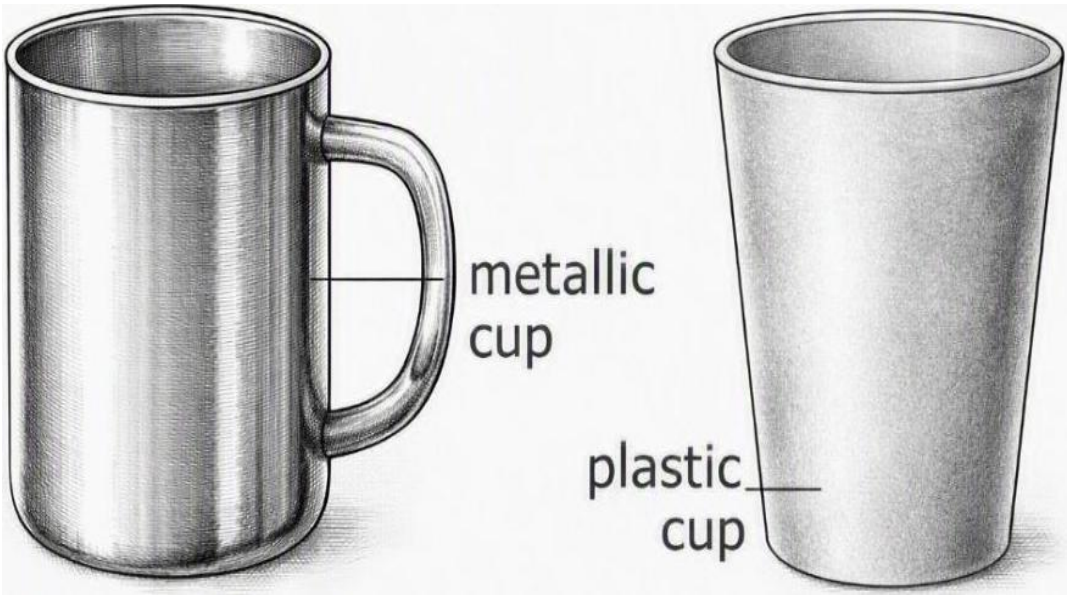
13. Mention any **one** method used by plants with weak stems to climb others.

Twining / Clasping

14. Give the importance of the sharp claws/talons to a kite bird.

For gripping the prey / For killing its prey / For carrying its prey

The diagrams below show cups made of different materials. Use them to answer questions **15** and **16**.



15. Identify the cup that will cool hot milk tea first if poured at the same time.

Metallic cup

16. State the use of soap during the cleaning of the above cups**.**

To kill germs on the cup / To dissolve stains on the cup

17. Name the germ that causes yellow fever in children**.**

Virus

18. Mention any **one** way of putting out fire from a burning charcoal after cooking.

By covering with a dry saucepan / By pouring water on the charcoal / By pouring sand on the charcoal / By covering it with ash

19. Give the method used to separate petroleum components in a refinery.

Fractional distillation

20. State any **one** reason why it is not advisable for people to share a house with domestic birds.

Leads to bad smell / Causes respiratory diseases / Droppings contaminate food / Causes parasites

21. Name any **one** correct layer of the skin in humans.

Epidermis / Dermis

22. State the reason why frogs lay many eggs during reproduction.

To increase chances of survival / Many are eaten by predators

23. Give **one** correct use of the moist skin to a frogs.

For breathing / For keeping body cool

24. State any **one** way through which crop pests can be controlled in a crop garden.

Spraying with pesticides / Crop rotation / Timely weeding/Early planting of crops/

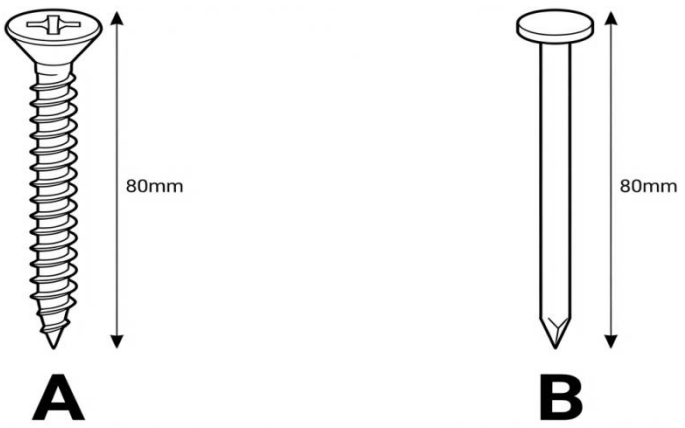
25. State any **one** importance of heat in the prevention of spread of germs.

Heat kills germs / Sterilizes equipment

26. Mention any **one** disadvantage of baking bricks to the environment.

Leads to deforestation / Causes air pollution / Causes soil erosion

The diagram below shows tools used by a carpenter during his work. Use them to answer questions **27** and **28**.



27. Identify the group of simple machines to which machine in diagram **B** belongs.

Wedge

28. Mention **one** factor that affects proper working of the above machines.

Rusting / Friction / Lack of oiling

29. Name the optical body organ in human beings.

Eye/human eye

30. Mention the part of the human ear that works like the brain.

Semicircular canals

31. State any **one** way through which the blood volume in the body can be increased.

Drinking a lot of fluids / Through blood transfusion/Taking iron tablets/Feeding on food rich in iron/

32. Name the breathing organ of a tick.

Spiracles

33. Give any **one** way through which reptiles help to improve human health.

Snake venom is used to make anti-venom / Some reptiles are eaten as food

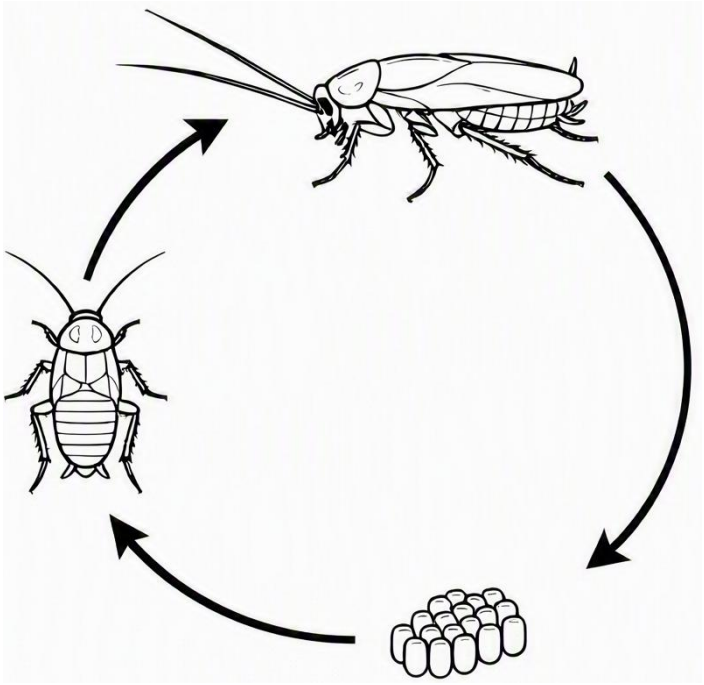
34. Mention any **one** use of water during drug administration by a patient.

Helps to swallow drugs / Dissolves drugs

35. State the **one** adaptation of the retina of the human eye to forming images.

Has light sensitive cells (rods and cones)

The diagram below shows a life cycle of an insect vector. Use it to answer questions that follow **36** and **37**.



36. Identify the type of life cycle shown above.

Incomplete life cycle

37. Show the flow of the stages from the diagram above using arrow heads.

Done on the diagram above

38. Name the system of grazing cattle that requires the use of a rope and a peg.

Tethering

39. Mention any **one** way of caring for the reproductive organs.

Washing daily with clean water / Wearing clean under wears/Wearing loose under wears/Early treatment of reproductive organs/Having protected sex activities with untrusted persons/Shaving overgrown hair/

40. Name any **one** correct fungal skin disease in humans.

Ringworm / Athlete's foot/Candidiasis/Dhobi itch

SECTION B (60 MARKS)

41. (a) Name any **one** component of a clean home that helps to provide clean water for washing hands after visiting a latrine.

Water tank / Tippy tap / Jerrycan with tap/Water sink/

(b) Mention any **two** factors considered when washing hands.

Use of clean flowing water / Use of soap / Scrub all parts

(c) Identify any **one** disease that can be prevented by regular washing of hands with clean water and soap.

Cholera / Diarrhoea / Dysentery / Typhoid/Ebola/COVID 19/

42. Use the list of the organisms below to answer questions that follow correctly. Weaver bird, Rice, Eagle, Sun, Mushroom.

(a) Draw a food chain to show the feeding relationship among the above organisms.

Rice → Weaver bird → Eagle → Mushroom

(b) In the food chain above, identify the, (i) Producer (ii) Secondary consumer

(i) Producer **- Rice**

(ii) Secondary consumer **- Eagle**

(c) State the use of the sun in the above list.

Provides energy for photosynthesis

43. Below is a method used in feeding babies. Use the diagram to answer questions that follow.



(a) Name the method of feeding babies shown in the diagram above.

Bottle feeding

(b) Mention any **two** conditions that may force a family to adopt the above method of feeding a baby.

Death of mother / Mother having AIDS/Mother being busy at work/Mother having breast cancer / Mother producing insufficient milk//

(c) Give any **one** disadvantage of the above method of feeding to the baby.

Baby lacks parental love and care/Baby does not get antibodies/Baby can easily get diarrhoea when the bottle gets contaminated/

44. (a) Mention any **one** example of a root tuber besides cassava.

Sweet potatoes / white yams/ yellow yams/purple yams/

(b) Give any **two** characteristics of root tuber crop pests.

Some have sharp claws for digging the ground / Some have sharp incisor teeth for gnawing rapidly/Have fingers for uprooting tubers/

(c) State any **one** use of pounded cassava flour in your community.

For making cassava bread / For sale to get money / For making fermented alcohol

45. (a) Mention the method used in the preparation of local salt from bean pod ash.

Filtration method

(b) Name any **one** example of food that can be prepared using local salt.

Beans / Vegetables / Dried sweet potatoes / Pumpkin leaves

(c) State any **two** other uses of ash in the environment besides making local salt from it.

Used as insecticide in gardens / Used to dry faeces in ECOSAN latrines / Used to add nutrients in compost / Used to put out fire / Used for cleaning saucepans

46. (a) Identify any **two** causes of poor waste management in markets in the community.

Lack of rules and regulations in markets / Lack of waste bins to dump in rubbish / Lack of garbage collection centres / Lack of punishment on poor disposal of rubbish

(b) Mention any **one** way through which local leaders contributes towards waste management in the markets.

Setting rules and regulations against poor waste disposal / Provision of waste bins in markets / Punishing people who dispose rubbish poorly / Locating a gazetted place for waste management

(c) Give any **one** danger of poor waste management to the market vendors.

Leads to breeding of disease vectors / Leads to outbreak of diarrhoeal diseases / Leads to bad smell / Causes food contamination

47. (a) Give the meaning of **an energy resource.**

An energy resource is any component of the environment that provides useful energy.

(b) Mention the way through which the use of energy saving stoves conserve trees in the environment.

Energy saving stoves have clay lining that retains heat and uses less charcoal, which reduces rate of deforestation.

(c) Give any **two** examples of renewable energy resources in the environment.

Solar energy / Wind energy / Hydroelectricity / Geothermal energy / Wood fuel / Biofuel / Tidal energy

48. The information below was collected by a doctor at Mukuju Health Centre IV on Opio an eight year old boy. Dry mouth and thirst, Reduced urination, Dry skin, Sunken fontanelle, Sunken eyes

(a) Mention any **one** cause of the above conditions in the child.

Severe diarrhoea / Severe vomiting / Severe burns and scalds

(b) Give any **one** way through which the above body conditions can be controlled in the boy.

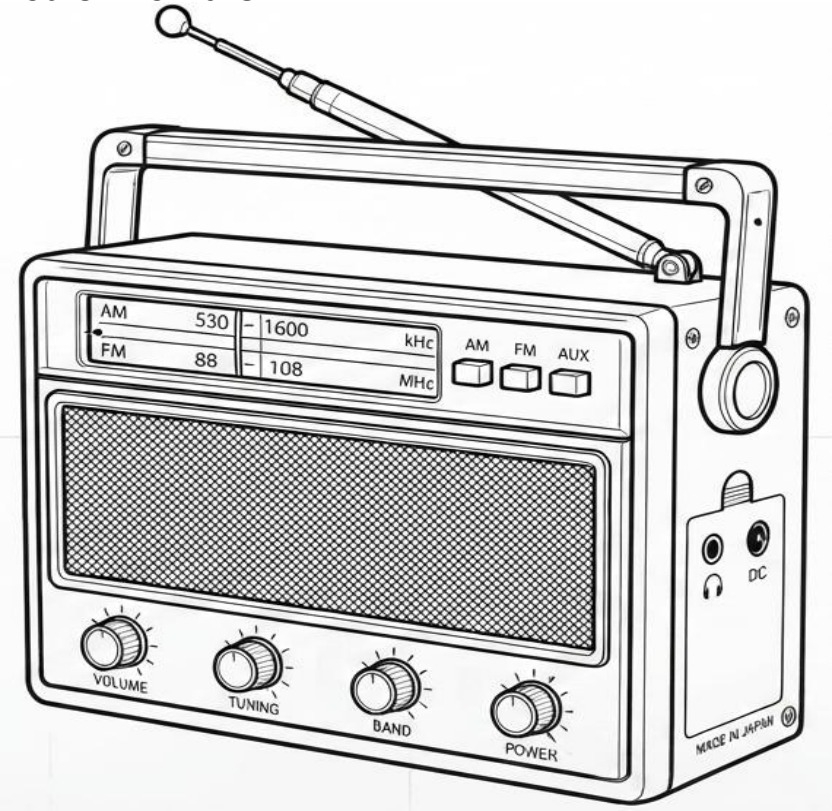
Giving the child ORS / Giving the child SSS / Giving non-alcoholic drinks

(c) During the control of the above condition in children, state the reason why the following are used.

(i) Salt **- Replaces lost mineral salts in the body**

(ii) Safe water **- Replaces lost water in the body**

49. The diagram below shows an electronic device used to manage antisocial behaviours in children.



(a) Mention any **two** causes of antisocial behaviours at school.

Denial of adequate food to children / Severe punishments / Too much freedom / Lack of proper guidance and counselling

(b) State any **two** ways through which the use of an electronic device above helps in lowering antisocial behaviours in the community.

Through educational programmes like dangers of drug abuse / Through celebrating achievements to promote positive behaviors / Through encouraging youth programmes in sports / Through reporting antisocial incidents to community leaders

50. (a) State any **two** conditions provided by a broody hen to the chicks till hatching.

Humidity / Warmth

(b) Mention any **two** disadvantages of using natural incubation in poultry management.

The hen can easily die due to diseases / Natural brooding cannot be used for commercial purpose / A hen may not be good at incubating / Poultry vices like egg eating may occur

51. (a) Name any **one** component of a deep litter house.

Feeding trough / Drinkers / Brooders / Litter / Wire mesh

(b) Mention any **two** ways of improving the quality of local breeds of chicken.

By upgrading / By crossbreeding

(c) State **one** advantage of rearing local breeds of chicken over exotic breeds.

More resistant to diseases than exotic / Can survive under harsh conditions / Can look for own food

52. The table below digestive site in A and digestive juices in B. Complete it correctly.

A: Site	**B: Digestive juice**
Mouth	Saliva
Stomach	**Gastric juice**
Duodenum	**Pancreatic juice**
Ileum	Intestinal juice

53. (a) Mention any **one** living source of sound in the environment.

dog/human/baby/monkey/honeybees/goat/cows/cricket/frog/

lion/cat/

(b) Give any **one** method of storing sound.

Mechanical(physical) method/Magnetic method/Electromagnetic method

(c) Explain how frequency affects the pitch of sound produced by a vibrating object. (**02 marks**)

The higher the frequency, the higher the pitch. (01 mark)

The lower the frequency, the lower the pitch.(01 mark)

54. (a) Give any **one** excretory waste product.

Carbon dioxide / Water vapour / Urea / Lactic acid / Bile/uric acid

(b) State the way through which panting is useful to a dove during sunny weather.

Panting cools the body temperature of the dove on hot days.

(c) Mention any **two** importance of the excretory system in the body.

Prevents body poisoning / Keeps body organs in good working condition / Cools the body on hot days/Maintains correct balance in the body/

55. Chloe planted soya bean seeds in a fertile land. After a period of one week, She went back to check if the seeds had germinated. She found out that 200 seeds germinated out of 600 seeds planted.

(a) Mention the term used to mean failure of seeds to germinate under favourable conditions.

Seed dormancy

(b) Identify any **two** conditions that might have made the soya bean seeds fail to germinate.

Planting cracked/damaged seeds / Planting immature seeds /

Planting untreated seeds / Planting rotten seeds

(c) Give any **one** way through which the ability of seeds to germinate can be improved.

Planting mature seeds/Planting undamaged seeds/

Planting treated seeds//By harrowing land /

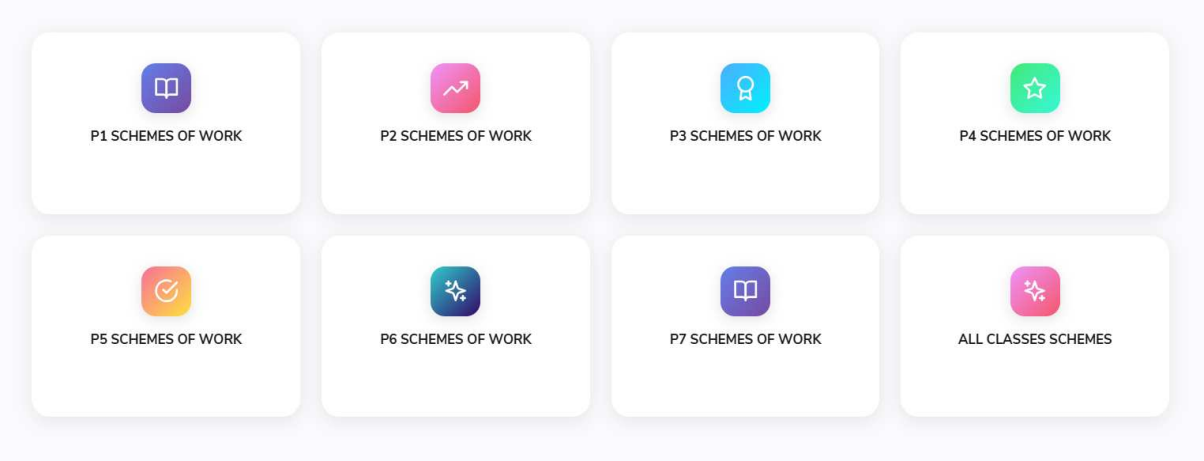
Soaking seeds before planting / Irrigating the land

Seed scarification//

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