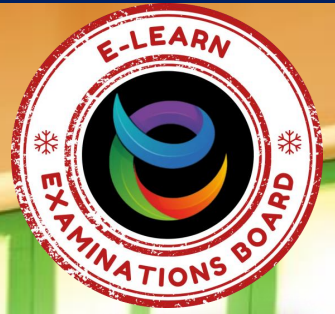
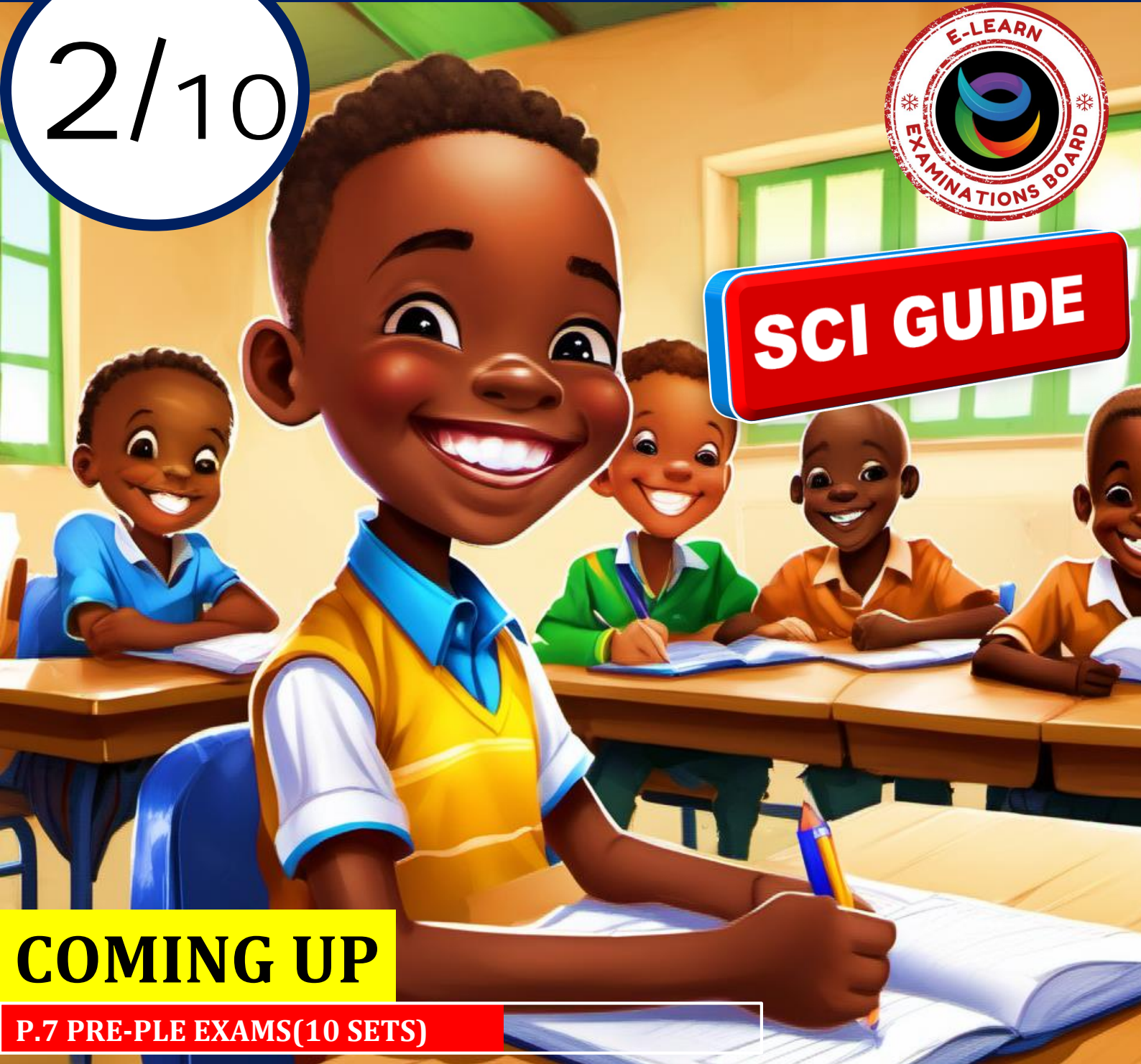


# PRE PLE 2024

2/10



**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 of cloud which is the nearest to the ground.  
✓ **Nimbus clouds**
2. Give any **one** function of the stem to a sugar cane plant apart from storing food.  
✓ **Transports water and nutrients from roots to leaves.**  
✓ **The stem keeps the plant upright // Provides support // helps the sugarcane in propagation.**
3. Write down any **one** way bee keepers can protect themselves from bee stings when harvesting **honey**.  
✓ **Wearing gloves // Overall veil// gumboots and veils**
4. State the reason why plants are regarded as the beginners of every food chain.  
✓ **Plants are capable of producing their own food**

The diagram below shows a fungus. Study it and use it to answer questions **5** and **6**



5. Give a reason why the fungus above is not able to make its own food  
✓ **It lacks Chlorophyll**
6. What form of energy is turned into hydroelectricity?  
✓ **Mechanical energy**
7. Apart from polio vaccine, mention any **one** other vaccine given to babies by putting drops in the mouth.  
✓ **Rotavirus vaccine // cholera vaccine**
8. Mention any **one** waste product removed by the skin and kidneys.  
✓ **Excess water // Excess salts**
9. Give any **one** way of saving charcoal during the cooking of food.

- ✓ **Using energy saving stove / Covering food / soaking food stuffs like beans**

10. Mention any **one** sign of coccidiosis infection in goats.

- ✓ **Diarrhoea / Loss of weight / loss of appetite / stunted growth / Dehydration/bloody diarrhoea/**

11. State any **one** activity that promotes proper working of body organs.

- ✓ **Doing regular physical exercises / Feeding on a balanced diet / have enough rest and sleep / Drinking plenty of water / Avoid Alcoholism and smoking.**

12. Give any **one** cause of Juvenile delinquency in communities.

- ✓ **Peer influence / pampering children / Media influence / Poor social environment / over strictness by parents or teachers.**

13. State any **one** way of preventing diseases that spread through air.

- ✓ **Wearing face masks / Use of a tissue or elbow to cover mouth while coughing / maintain social distance / proper ventilation of living houses / Avoid crowded places / vaccination**

The diagram below shows a cow with a bell tied around its neck. Use it to answer questions **14** and **15**.



14. Give **one** reason why cattle farmers tie bells around the necks of some animals on their farms.

- ✓ **It helps in easy identification of animals.**

15. Mention any **one** farm activity that can help to prevent tick **borne** diseases in a cattle farm.

- ✓ **Dipping cattle / Spraying acaricides / use of paddock grazing.**

16. How is the movement of bacteria different from that of amoeba?

- ✓ **Bacteria use flagella to move while amoeba use pseudopodia (false feet) to move.**

17. Give any **one** reason why it is dangerous to swallow drugs without the doctor's usage instructions.

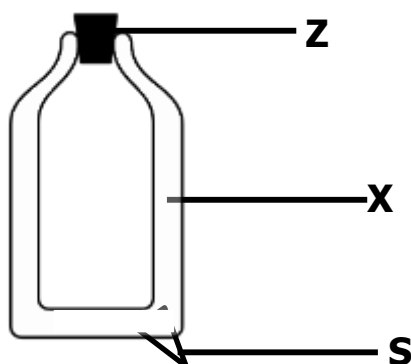
- ✓ **It can lead to drug poisoning / taking overdose / taking under dose.**

18. State any **one** reason why poultry farmers put perches in a deep litter house.

- ✓ **To enable birds do physical exercises**

✓ **Helps birds to rest**

The diagram below shows a thermos flask. Use it to answer questions that follow.



19. Name the part marked X

✓ **Vacuum**

20. How does part Z prevent heat loss or gain by conduction?

✓ **It is a heat insulator / bad conductor of heat.**

21. Name any **one** part of the human body where paired muscles are found.

✓ **Arm**

22. Give any **one** use of water at home.

✓ **Cooking food / washing clothes / Bathing / Water is used for irrigation.**

23. State any **one** characteristic of seeds dispersed by wind.

✓ **Seeds are small and light / Have wing like structures / have parachute like structures**

24. Give any **one** way in which rusting of metals may be beneficial to the soil.

✓ **Rusting adds iron into the soil.**

25. State any **one** difference between the structure of an incisor tooth and a molar tooth.

✓ **An incisor is chisel shaped while a molar has rough ridges and cusps**

✓ **An incisor has one root while molars have two or three roots.**

26. Mention any **one** way in which farmers can control the breeding of poor quality animals in their farms.

✓ **Carrying out cross breeding /selective breeding/out breeding/ Castration.**

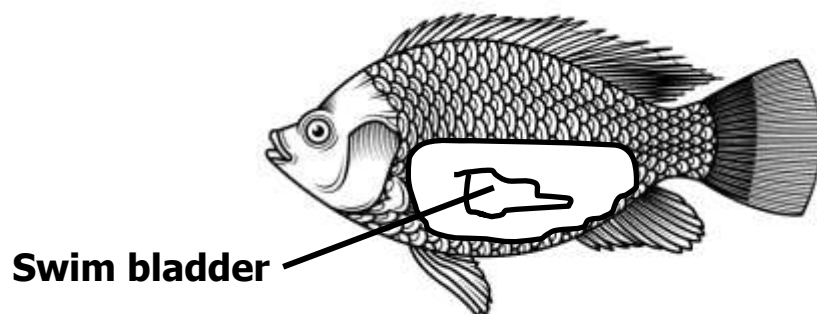
27. Give the function of sepals to a plant after the flower has opened up.

✓ **Sepals help in photosynthesis/support the petals/Protects the ovaries from predators/**

28. State any **one** condition that can make women vulnerable people in the community.

✓ **Pregnancy / breast feeding / sickness.**

The diagram below represents a bony fish showing the swim bladder. Study and use it to answer questions 29 and 30.



29. In what way is a swim bladder useful to bony fish in water?

- ✓ **Keeps the fish buoyant in water // Helps a fish to float on water // Prevents a fish from sinking.**

30. Mention any **one** example of a bony fish.

- ✓ **Tilapia / Nile perch / Tuna / Salmon**

31. Name the part of the human ear that is connected to the throat.

- ✓ **Eustachian tube (auditory tube)**

32. Give any **one** method of preserving food that helps to kill germs.

- ✓ **Smoking**

33. State the method used by earthworms for movement in the soil.

- ✓ **Contraction by the muscles/ Muscle contraction**

34. Give any **one** reason why wood for charcoal is covered with soil before firing starts.

- ✓ **Soil limits the supply of oxygen.**

35. Mention any **one** difference between indigenous and exotic tree species.

- ✓ **Indigenous trees take long to mature while exotic trees mature faster**

- ✓ **Indigenous trees produce hardwood while exotic trees produce soft wood.**

- ✓ **Indigenous trees can grow without special care while exotic trees need special care.**

36. State **one** characteristic of living things that enables them adapt to changes in the environment.

- ✓ **Living things respond to stimuli.**

37. Give any **one** reason why an ostrich is not able to fly.

- ✓ **An ostrich has small weak wings.**

38. Give any **one** sign of rickets in children.

✓ **Bow shaped legs / knocking knees/**

39. State any **one** reason why a victim of severe burns and scalds is encouraged to drink a lot of fluids.

✓ **To prevent dehydration.**

40. Give any **one** reason why permanent methods of birth control should be discouraged among people.

✓ **Permanent methods cannot be reversed / Cause permanent sterility.**

### SECTION B

41. (a) Name any **two** activities that can be **done** by children to prevent bad body smell.

✓ **Regular bathing / brushing teeth regularly/regular dental flossing/Early treatment of skin diseases/**

✓ **Washing clothes / shaving pubic and armpit hair.**

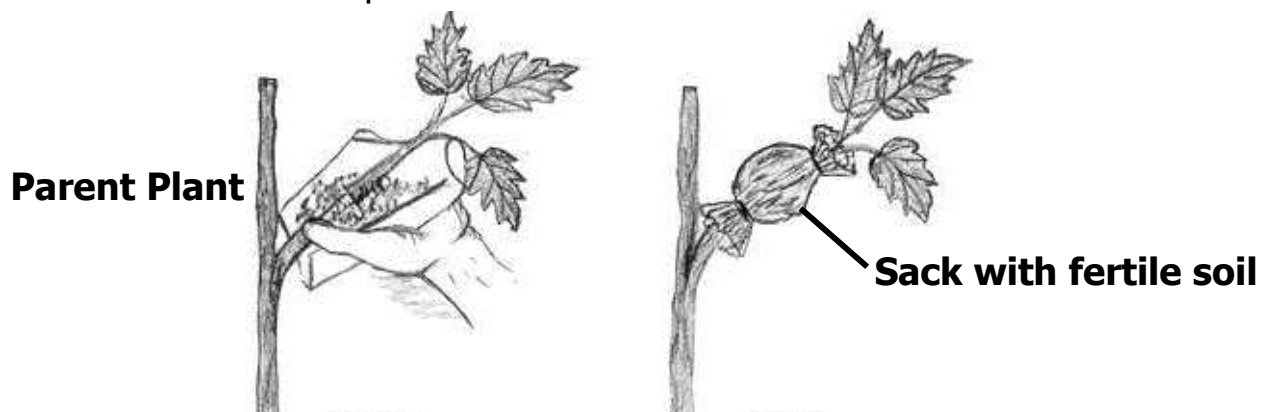
(b) Apart from having a bad body smell, mention any **one** other danger of improper body hygiene.

✓ **It leads to skin infections/ urinary tract infections / Parasitic infections like lice, scabies**

(c) Give any **one** disease that can cause a bad body smell.

✓ **Ring worm / Athletes foot.**

42. The diagrams below show an artificial method of vegetation propagation. Study and use it to answer questions that follow.



(a) Name the method of artificial propagation above.

✓ **Marcotting**

(b) How useful is the fertile soil in the sack?

- ✓ **Fertile soil helps adventitious roots to develop/stimulates the growth of adventitious roots/**

(c) Write **one** advantage of using artificial methods over seeds.

- ✓ **The new plant gets food from parent plant which is not the case in seeds.**
- ✓ **The young plants mature faster than when seeds are used.**

(d) Apart from the above method, name any other artificial method of vegetative propagation.

- ✓ **Layering**
- ✓ **Budding**
- ✓ **grafting**

43. (a) Mention any **one** way natural changes can cause environmental degradation.

**Some examples of natural changes include**

**Volcanic eruption / Floods / Lightning / Landslides / Earth quakes / Elnino rains / Strong winds**

**Ways natural changes cause environmental degradation are;**

- ✓ **Volcanic eruptions kills and displaces people**
- ✓ **Floods kill people and animals**
- ✓ **Lightning kills people and animals**
- ✓ **Landslide destroys the vegetation**
- ✓ **Elnino rains destroys crops and property**

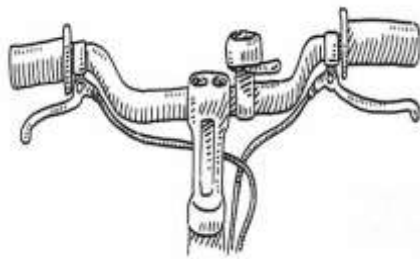
(c) Give any **two** man made causes of environmental degradation.

- ✓ **Deforestation/Bush burning / Overgrazing / Over cultivation/swamp drainage/construction of roads/**
- ✓ **Swamp drainage / charcoal burning**

(d) In what way does the use of electricity for cooking help to conserve the environment?

- ✓ **It reduces demand for wood fuel/ Electricity does not pollute the environment/reduces the rate of deforestation for wood fuels/**

44. The diagram below shows a bicycle handle. Study and use it to answer questions that follow.



- (a) Name the group of simple machines where a bicycle handle belongs.  
✓ **Wheels and axle**
- (b) Mention any **two** examples of simple machines in the same group as a bicycle handle.  
✓ **Car steering wheel / Egg beater / bicycle pedal (pedal wheel)**  
✓ **Door knob / Brace / Screw driver / windlass (winch)**
- (c) Give any **one** use of pulleys.  
✓ **They are used to raise (hoist) flags / Move curtains / fetching water from deep wells / used in cranes to lift heavy loads/used for transporting building materials during construction/**
45. (a) State any **one** sign of growth in living things.  
✓ **Increase in size / change in weight / increase in height / Change in veins.**
- (b) Apart from growth, mention any **two** changes that take place in living things.  
✓ **Flowering / Fruiting / Ripening of fruits / Germination**  
✓ **Moulting / Reproduction / Respiration / Chemical digestion/change of colours in chameleons/fertilization/ovulation/**
- (c) State any **one** way abnormal body growth can be prevented in humans.  
✓ **Avoiding drug abuse / Immunization**  
✓ **Feeding on a balanced diet / Doing regular physical exercises**
46. (a) Name the type of objects that do not form shadows.  
✓ **Transparent objects.**



(b) Give any **two** uses of shadows in our daily lives.

- ✓ **Help in telling time / Providing shade / helps in photography / shadows are used in experiments when teaching light.**

(c) State any **one** way in which shadows can be a danger to human life.

- ✓ **Shadows can lead to accidents at night / Hiding dangerous wild animals like snakes.**

47. (a) Apart from sisal and banana fibres, mention any **two** other examples of plant fibres.

- ✓ **Cotton wool // Jute // Hemp // Bamboo // Linen/**

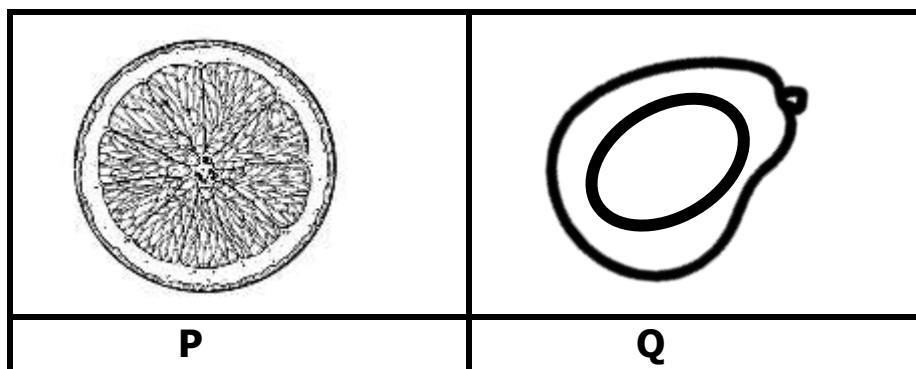
(b) Mention any **one** source of animal fibres in the environment.

- ✓ **Silk worms/sheep/rabbits/**

(c) Give any **one** way people use fibres in the environment.

- ✓ **Making cloths // papers // Bedsheets // Ropes // Rugs**

48. The diagram below shows succulent fruits. Study and use it to answer questions that follow.



(a) Name the group of succulent fruits marked P and Q.

- i) P. - **Berries**
- ii) Q – **Drupe**

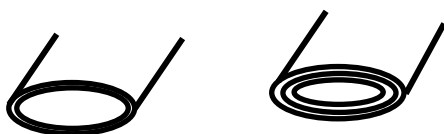
(b) Mention any **one** examples of succulent fruits marked P and Q

- i) P. – **Orange // tomatoes // Water melon // passion fruit**
- ii) Q. – **mango // Avocado // peach // Coconut // Dates**

49. Peter accidentally poured salt on sand. His teacher gave him a beaker, water filter paper, a source of heat (fire) and a pan to help him get back the salt. Describe in four sentences how Peter will recover the salt from the sand.

- ✓ **Pour water in the mixture of salt and sand**
- ✓ **Stir properly until salt dissolves.**
- ✓ **Filter the mixture to get salt solution**
- ✓ **Evaporate (boil) salt solution to dryness to get salt crystals.**

50. The diagrams below show the different types of blood vessels. Study and use them to answer questions that follow.



(a) Name the blood vessel marked S.

- ✓ **Vein**

(b) State any **two** structural differences between blood vessel marked S and T as shown in the diagram.

- ✓ **Blood vessel S had a wide lumen while blood vessel T has a narrow lumen.**
- ✓ **Blood vessel S has thin walls while blood vessel T has thick walls.**
- ✓ **Blood vessel S has valves while blood vessel T doesn't have valves.**

(c) Name the blood vessel that transports digested food from the ileum to the liver.

- ✓ **Hepatic portal vein**

51. (a) Mention the Sexually Transmitted Disease (STD) that causes discharge of pus from the urethra in both males and females.

- ✓ **Gonorrhea**

(b) State any **two** ways children can safe guard themselves from getting sexually transmitted diseases.

- ✓ **Abstinence // Vaccination // regular medical checkups // Avoiding peer pressure // Avoid sharing sharp cutting materials.**

(c) Give a reason why married couples are advised to treat STD's together.

- ✓ **To prevent re-infection.**

52. The table below shows human body organs the system to which they belong and the organs function. Study and complete it correctly.

Organ	System	Function
Lungs	Respiratory	<b>Help in breathing</b>
<b>Heart</b>	Circulatory	Pumps blood
skin	<b>Excretory</b>	Removes sweat
testes	Reproductive	<b>Produces sperms/testosterone hormones /</b>

53. (a) Give any **one** sign of soil erosion on land.

- ✓ **Rills on land/gullies on land//Exposed roots // Loss of top soil // Reduced crop yields // Land slides**

(b) Name any **one** agent of soil erosion.

- ✓ **Flowing water // Wind // Moving animals // Poor farming methods**

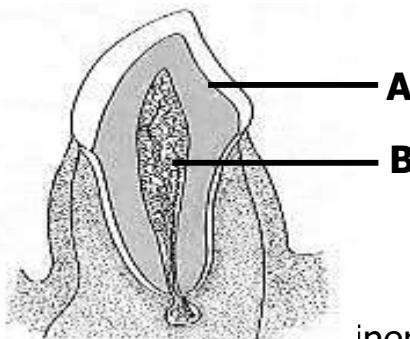
(c) State any **one** danger of soil erosion.

- ✓ **Loss of fertile soils // Reduction in crop yields // water pollution // Silting // loss of vegetation // Increased floods // food insecurity.**

(d) Explain how de-vegetation can result into soil erosion in an area.

- ✓ **Devegetation reduces soil cover exposing it to erosion**
- ✓ **Devegetation leaves the soil bare exposing it to agents of erosion.**

54. The diagram below represents a tooth. Study and use it to answer questions that follow.



(a) Apart from calcium, \_\_\_\_\_, \_\_\_\_\_ mineral salt that helps in the formation of part **A**.

- ✓ **Phosphorous**

(b) Give a reason why part labeled B is sensitive.

- ✓ **It contains sensory nerves.**

(c) Mention any **one** cause of damage to part labeled A.

- ✓ **Cutting fingernails using teeth/Playing rough games // Opening soda bottles using teeth // Tooth decay.**

(d) State any **one** way of caring for teeth.

✓ **Brushing teeth regularly // Dental flossing /**

55. (a) Name the type of breeze that takes place during day.

✓ **Sea breeze**

(b) State any **two** importance of air movements in the environment

✓ **Helps in formation of convection rainfall.**

✓ **Keep charcoal stoves burning**

✓ **Keeps charcoal iron box burning**

✓ **Drying wet clothes**

✓ **Taking out smoke through chimneys.**

(c) Give any **one** danger of danger of strong air movements in the environment.

✓ **Damage of property // damage of power lines // Destroys crops /  
Spreads wild fires // Spreads airborne diseases.**

**END**