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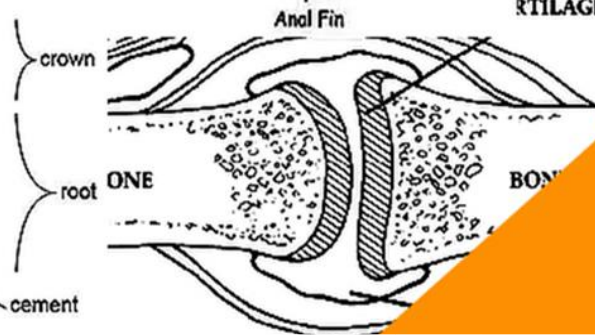
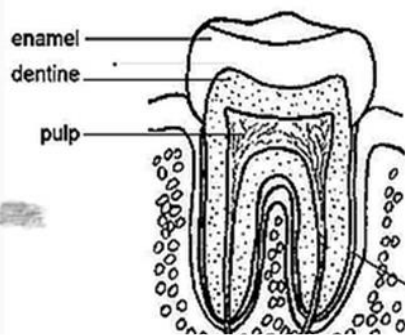
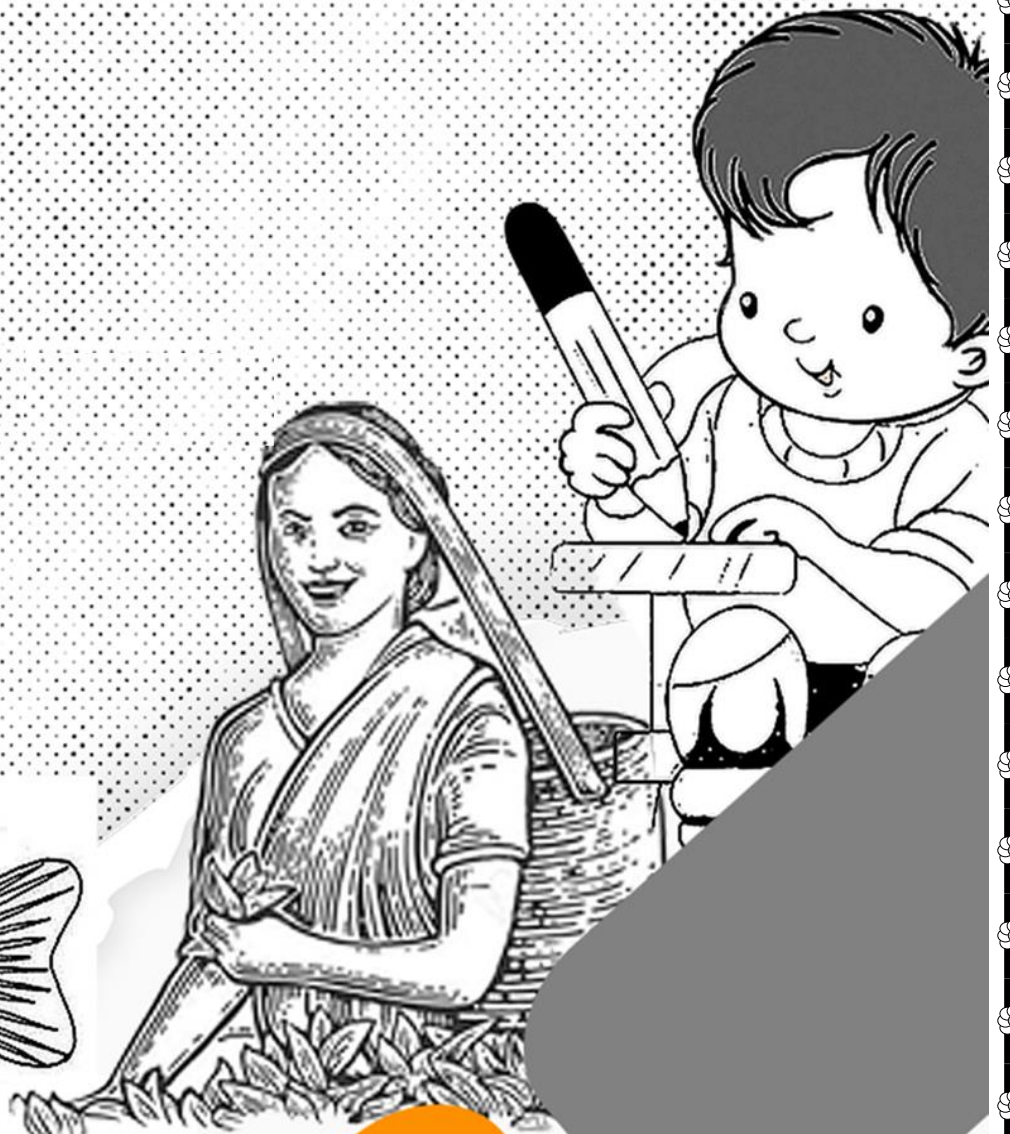
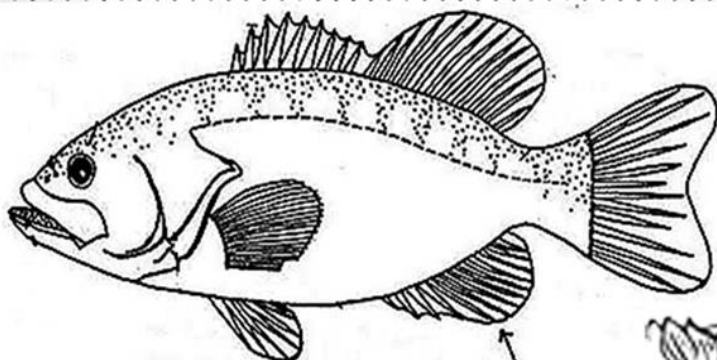
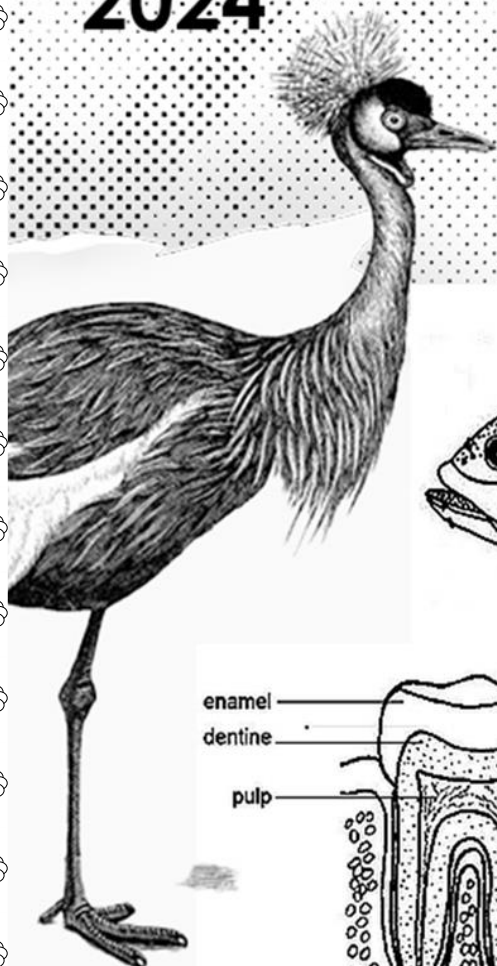
EXAMINATIONS BOARD

SCIENCE

Official Marking Guide

P.5 QUALITY CHECK FOUR

2024

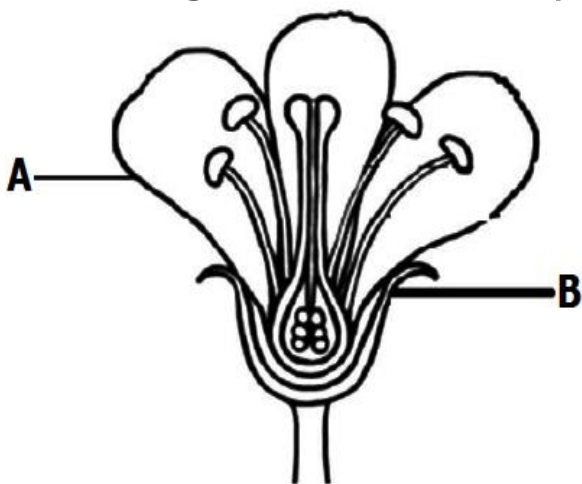


Quality Speaks for itself

SECTION A: 40 MARKS

1. Name **the** component of air that supports life of patients in the hospitals.
Oxygen
2. Give any **one** reason why snakes move from one place to another.
To look for food//To look for mates//To run away from enemies
To look for better settlement
3. Which body organ is responsible for filtering blood in the human body?
Kidneys
4. Give any **one** characteristic of underground stems.
Have scaly leaves//Have nodes and internodes//Grow beneath the soil surface
Have adventitious roots//Some store food
5. Why does a female anopheles mosquito feed on blood?
For proper development of eggs/for her eggs to develop
6. Give any **one** way in which you can manage your poultry farm at home.
Proper feeding//Regular vaccination//Regular isolation of sick birds
Proper cleaning of the poultry house//Regular deworming of the poultry
Providing poultry with clean water for drinking
7. State any **one** way of protecting our eyes from getting spoilt easily.
Wearing sunglasses//Feeding on a balanced diet
Avoid rubbing eyes with contaminated hands or handkerchiefs
Avoid looking at the sun directly with naked eyes
Avoid staring at screens for too long
8. Why is it not advisable to leave a pickaxe outside at night?
To prevent rust from forming on it/ to prevent it from rusting

The diagram below is a part of a plant. Use it to answer question **9** and **10**.



9. Name the part of a plant shown above.
A flower
10. State the functional similarity between part marked **A** and **B** to the above part of a plant.
Both parts marked A and B protect the inner parts of the above part of a plant
11. Name the standard unit for measuring mass of an object.
Kilograms
12. Give any **one** reason why crop farmers stake their crops in the garden.
To make spraying easy//To make pruning easy//To enable plants to get enough sunlight energy//To protect the fruits from ground crop pests
13. Which deficiency disease is caused by insufficient iron in the body?
Anaemia

14. Identify the part of a tooth that replaces the wornout enamel.
Dentine
15. Why is sugar included in the preparation of **Salt sugar solution**?
To restore body energy/to replace the lost body energy
16. Give any **one** factor that determines the weight of an object.
Mass of an object//Gravity acting on an object
Material from which an object is made
17. Why is taking paraffin not a good practice in our body?
Paraffin causes body poisoning/paraffin can damage the throat in case the victim is forced to vomit
18. Name the insect that lays its eggs in the fast flowing water.
Blackfly/sumulid fly/simulium fly

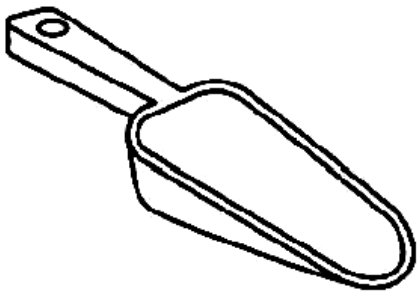
The diagram below shows a child suffering from a certain immunisable disease. Use it to answer the question **19** and **20**.



19. Name the immunisable disease the child above is suffering from.
Polio/poliomyelitis
20. In which one way is the above disease spread from an infected person to a healthy one?
Drinking contaminated water
Eating food contaminated by cockroaches
21. How does the continued use of plastics harm the environment?
Plastics degrade the soil//Plastics block drainage system//Kill some soil organisms
Pollutes the soil//Prevents water infiltration
22. State any **one** role of hydrochloric acid during the process digestion.
Hydrochloric acid provides an acidic condition for pepsin enzyme to work effectively
Hydrochloric acid activates pepsin enzyme//Hydrochloric acid kills germs on food
23. Why is it harmful to touch live wires with bare wet hands?
It leads to electric shock/One may be shocked by electricity to death
24. How does a microscope enable a doctor to see germs?
It magnifies germs for the doctor to see germs
25. Give any one advantage using herbicides over uprooting weeds?
Herbicides kill weeds more quickly than uprooting weeds
Using herbicides save more time than uprooting weeds
Using herbicides is less tiring than uprooting weeds
26. What structure does a worker bee use to collect nectar?
Proboscis
27. Which type of digestion is carried out by bile salts?
Physical digestion/ mechanical digestion. (Reject: chemical digestion)

28. Give the meaning of the term crop rotation.
Crop rotation is the growing of different crops on the same piece of land season after season.
29. How are shadows useful to footballers?
Shadows provide shade to footballers//Shadows help footballers to estimate time

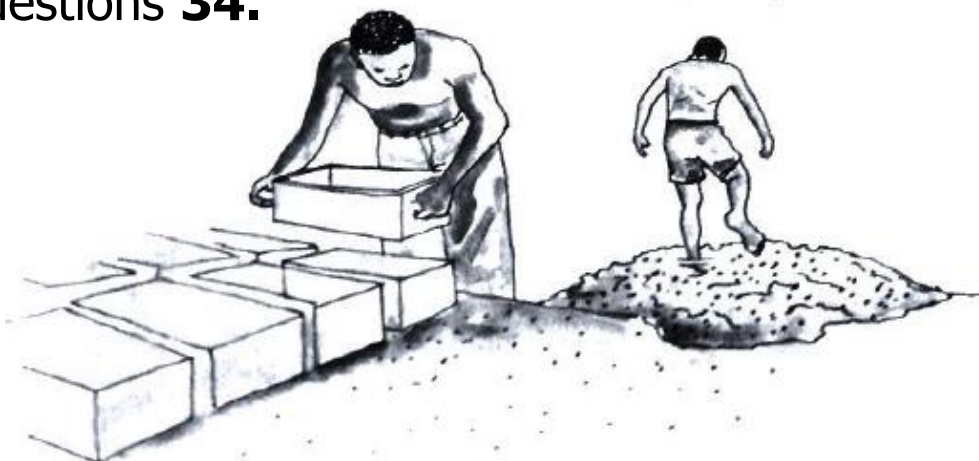
The diagram below is a tool used by shopkeepers in the. Use it to answer the questions **30** and **31**.



30. Name the tool shown above.
A scoop/ a metallic scoop/ a plastic scoop
31. Of what importance is the above tool to shopkeepers?
-Used to measure and dispense accurate quantities to customers
-It reduces the contamination risks

32. How can you tell if a child has been immunized against tuberculosis without looking for an injection scar on the right upper arm?
Using a child health card/ a child immunization card
33. What is the difference between a doe and a buck?
A doe is a mature female rabbit yet a buck is a mature male rabbit

The diagram below shows men carrying out brick making in the environment. Study and use it to answer questions **34**.

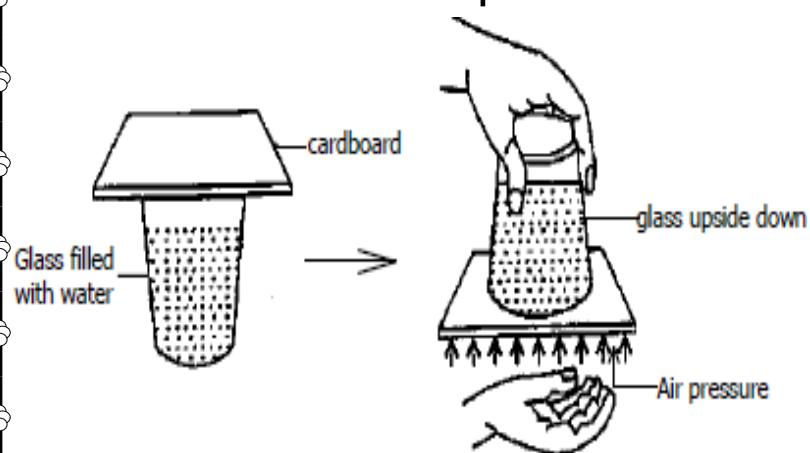


34. Why is the above activity not friendly to the environment?
It can lead to soil degradation/soil erosion//It can lead to water pollution
It can lead to air pollution during firing bricks//It leads to deforestation
It leads to destruction of natural habitats
35. Mention any **one** condition of weather.
Windy//Sunny//Rainy//Cloudy
36. Which condition of the human body is characterized by the skin going back slowly when pinched?
Dehydration
37. Give any one way in which people make use of banana fibres.
Banana fibres can used for making local balls//Used for making ropes
Used for making mats
38. Which component of a clean home where food is prepared from?
A clean kitchen/ kitchen

39. Give any one way of making water safe for drinking.
By boiling water //By putting recommendable chemicals in water/chlorination
By Ultraviolet light water purification
40. How is the use of spiracles similar to that of stomata in plant leaves?
Both are used for breathing

SECTION B: 60 MARKS

41. (a) Apart from beeswax, give any one product obtained from bees.
Honey//Bee venom//Royal jelly//Propolis//Bee pollen
- (b) Give any **two** in which beeswax is useful to people.
Beeswax is used for making shoe polish//For making wood varnish
For making book binding threads//For making cosmetics
For making chewing gums//For making crayons//For making ice-cream vessels
- (c) State any one factor that should be considered when siting beehives.
A place free from noise//A place free from bad smell//A place near flowering
Plants//A place with shades
42. The experiment below shows a property of air. Study and use it carefully to answer the questions that follow.

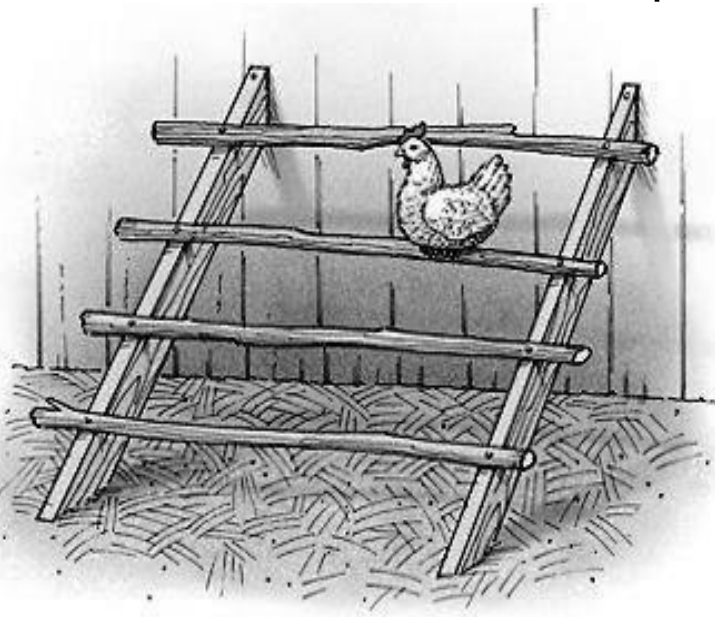


- (a) Mention the property of air shown above.
Air exerts pressure
- (b) Give the role of the cardboard in the above experiment.
To prevent water from pouring
- (c) State any two uses of the above property of air in daily life.
Helps us to drink soda using a straw //Helps us to flush toilets
Helps us to draw water from taps/boreholes //Helps us to breathe
Helps us to draw water from a water tank using a pipe
43. (a) Apart from greenstick fracture, give any **two** other common fractures in human beings. **Comminuted fracture/complicated fracture**
Depressed fracture//Compound fracture//Simple fracture
- (b) Why is greenstick fracture commonly found in babies?
Babies still have soft bones
- (c) Identify any **one** required first aid for a person who has got a fracture.
Tying splints around the fractured limb
Using arm sling to hold a fractured bone of the arm
Using a stretcher to carry a casualty who hardly walk
44. Give the meaning of the following terms as used in measurements.
- (a) Volume **Volume is the space occupied by an object**
- (b) Density **Density is the mass of an object per unit volume**

- (c) Find the mass of an object whose density is 40g/cc and a volume of 10cc.
Mass= density x Volume
Mass= (4 x 10)g
Mass= 40g

45. (a) State any two factors that reduce the rate of transpiration.
Low temperature//High humidity//Strong wind//Low sunlight intensity
Stomatal closure//Hairy leaves//Small sized leaves
Few number of leaves on the plant
- (b) In which two ways is transpiration beneficial to plants?
Cools plants//Allows plant roots to absorb more water from the soil

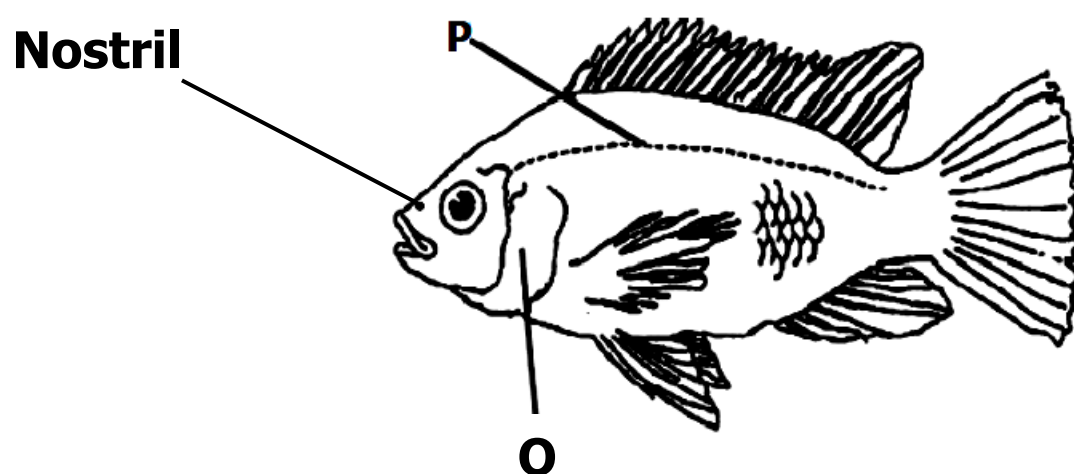
46. The diagram below shows an item commonly used in a poultry house. Study and use it to answer the questions that follow.



- (a) Name the item shown above.
A perch
- (b) Mention any one material used to make the item shown in the diagram above.
Wood//Nails
- (c) In which two ways is the item shown above useful in the poultry house?
It keeps the birds busy to prevent boredom
It enables the birds to do physical exercises
For birds to play and rest
47. (a) Mention any **two** types stems in plants.
Underground stems//Upright stems/ erect stems//Climbing stems//Creeping stems
- (b) Identify any **one** plant whose stem can be used as a planting material.
Cassava//Sweet potatoes//Bamboo//Lemon grass//Irish potatoes
- (c) State any **one** way in which stems support human life.
Stems are a source of herbal medicine//Some stems are eaten as food
Some stems are used for housing//Some stems are used as fuel for cooking and heating//Stems provide oxygen to humans for respiration
Some stems are used to make fibres for making clothing and textiles
48. (a) Name **the** best layer of soil for crop growing.
Topsoil
- (b) Apart from the layer of soil given above in 47 a) mention two other layers of soil.
Subsoil layer//Parent rock layer
- (c) State any one role of earthworms in the soil.
Earthworms aerate the soil//Earthworms improve on soil drainage
Their wastes improve on soil fertility

49. a) Name the component of watercycle that causes evaporation to take place.
Sun
- (b) State any two advantages of rainfall in the environment.
It is the main source of water//It cools the temperature of a place//It provides water for plant growth//It is a raw material for photosynthesis//It helps crops to germinate//It softens the soil for easy ploughing
- (c) Give any one disadvantage of rainfall in the environment.
**Too much rainfall destroys crops//Too much rainfall leads to floods
Too much rainfall destroys houses//Too much rainfall kills animals
Too much rainfall makes marram roads muddy/slippery**
50. (a) Mention any **two** examples of external parasites on rabbits
Ticks//Mites//Fleas//Stable flies
- (b) State any one effect of external parasites to rabbits.
**They transmit diseases to rabbits//They lower the quality of rabbit skins
They suck blood from rabbits leading to anaemia//They cause irritation to an animal**
- (c) In which **one** way can external parasites be controlled in rabbits?
Spraying with acaricides//Dusting rabbits with acaricides//Hand picking/de-ticking
51. (a) Give any **two** ways of preparing food.
Steaming//Roasting//Mingling//Peeling//Frying
- (b) How do the following methods preserve food?
- (i) Salting: **Salt absorbs moisture from food//dehydrates food/drains moisture from food**
- (ii) Refrigeration: **It prevents the multiplication of bacteria/germs**
52. Match the items in the list **A** with those in **B** correctly
- | A | B |
|-----------------|-------------------------------|
| Heart | For reasoning |
| Gall bladder | For pumping blood |
| Urinary bladder | For storing urine temporarily |
| Brain | For storing bile juice |
- (a) Heart: **Pumping blood**
- (b) Gall bladder: **For storing bile juice**
- (c) Urinary bladder: **For storing urine temporarily**
- (d) Brain: **For reasoning**
53. (a) Give any **two** reasons why it is important to keep the body clean.
**To prevent the spread of germs//To prevent the spread of some skin diseases
To prevent bad body smell//To prevent tooth decay//To help one to be healthy
To remove dirt from the body//To prevent breeding of some disease vectors**
- (b) State any **two** dangers of failing to keep the body clean.
**It can lead to tooth decay//It can lead to the spread of some skin diseases
It can lead to easy spread of diarrhoeal diseases
It can lead to bad body smell**

54. The diagram below is of a fish. Use it to answer the questions that follow.



- (a) Name **the** environment where the fish above lives.
Freshwater/water/aquatic environment
- (b) State the importance of part labeled **P** to a fish.
Part P enables the fish to sense danger in water
It enables the fish to detect sound waves in water
- (c) Name the organ protected by part marked **O** in the fish.
Gills
- (d) Use an **arrow** on the diagram above, show the **nostril**.
DONE

55. (a) What term is described as the development of a seed into a seedling?
Seed germination/germination
- (a) Mention the **two** types of a seed development into a seedling.
Hypogeal germination//Epigeal germination
- (b) How does moisture support the development of a seed into a seedling?
Moisture softens the seed coat for the embryo to pass
Moisture dissolves stored food for the embryo

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