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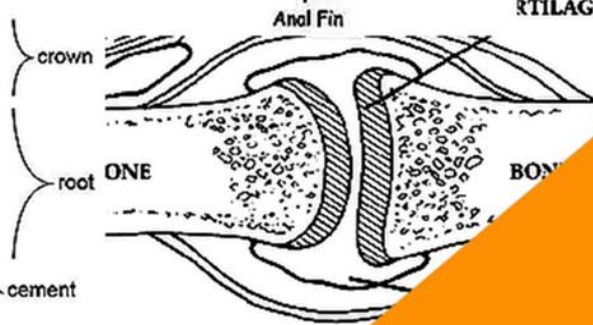
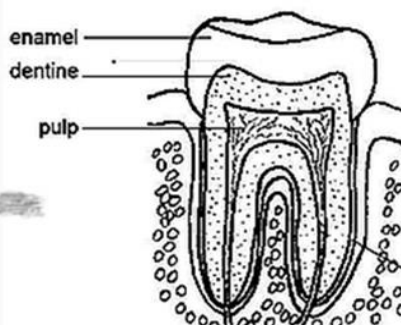
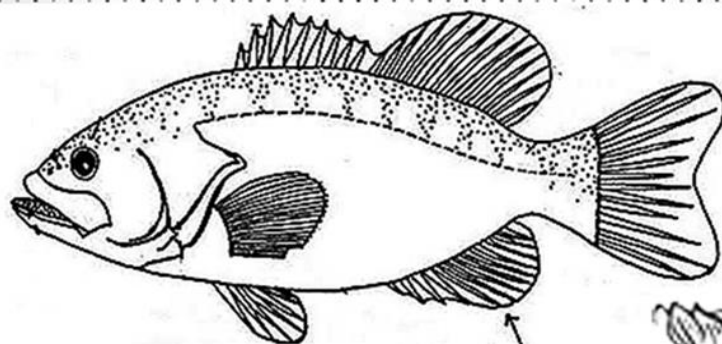
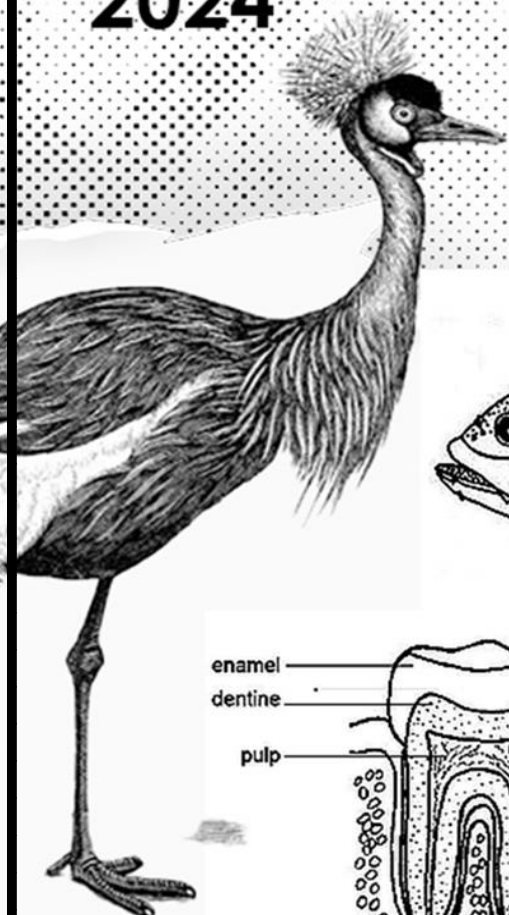
EXAMINATIONS BOARD

SCIENCE

Official Marking Guide

P.6 QUALITY CHECK FIVE

2024

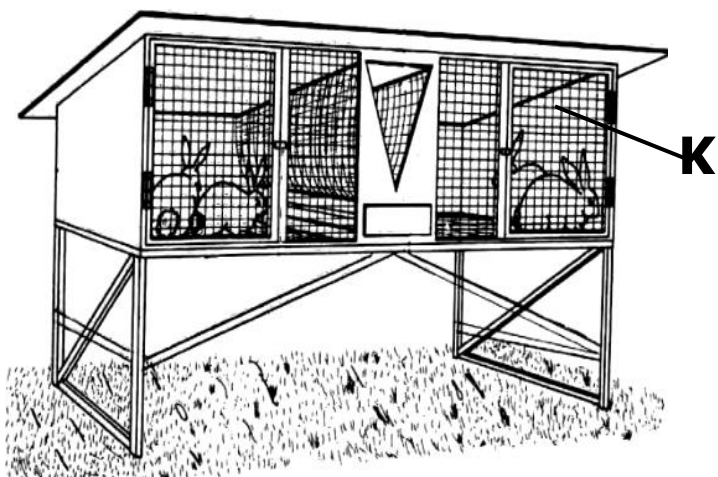


Let Quality Speak for itself

SECTION A: 40 MARKS

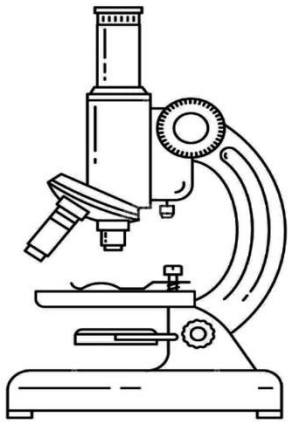
1. Name the root structures that absorb water and mineral salts from the soil.
Root hairs
2. Give any **one** effect of pouring chemicals like acids to the soil.
They kill soil organisms.//they prevent rainwater from entering the soil//
they block soil aeration.
3. Which group of birds feed on carcasses in the environment?
Scavenger birds
4. Why is measles vaccine administered to babies at the age of nine months?
Babies are born with strong maternal immunity that lasts for around nine months.
5. State any **one** property of air demonstrated using an inflated and a deflated balloon tied on either side of a stick.
Air has weight//air occupies space

The diagram below shows a rabbit hutch. Use it to answer questions **6** and **7**.



6. Identify the rabbit hutch shown in the diagram above.
Caged hutch
7. How do structures marked **K** help in the control of disease outbreak in rabbits?
It allows free circulation of air in the hutch.
8. State **one** characteristic that is common in both a fruit and a maize grain.
Both have two scars.
9. Name any **one** liquid that requires manufacturers to leave the space in the bottle when packing it.
Soda//beer//wine//juice
10. Mention any **one** way in which communicable diseases spread to people.
Through contaminated air//through body contact//through sexual intercourse//
through drinking contaminated water//through eating contaminated food.
11. How is the movement of a bat different from that of a toad?
A bat flies while a toad hops.
12. Which feature of a hen enables it to turn its eggs during incubation?
Beak
13. In which way is fish farming help in the prevention of kwashiorkor in children?
Fish are source of proteins when eaten.
14. Apart from getting wood fuel, give any **one** other reason why people cut down trees.
To get land for farming//to get land for settlement//to get land for setting up industries.

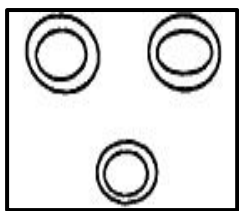
The diagrams below shows a medical equipment. Study them and answer questions **15** and **16**.



15. Name the medical equipment shown above.
Microscope
16. Identify any **one** type of germs that make doctors to use the medical equipment shown above.
Bacteria//virus//fungi//protozoa

17. Give any **one** way in which petrol in a car is similar to food in the human body.
Both are fuel.
18. Give any **one** way in which enzymes are useful during digestion of food.
Enzymes speed up digestion//they help in the breakdown of food.
They change food from one form to another.
19. How is the tourniquet useful when giving first aid to a casualty who has got a severe wound in an accident?
It controls excessive bleeding at the wound/cut.
20. State any **one** practice in a school garden that helps to improve soil fertility.
Mulching//manuring//adding artificial fertilisers
21. Which type of teeth are well developed in rats?
Incisor teeth/incisors
22. Apart from a guitar and a bow harp, mention any **one** other example of a string musical instrument.
Violin//viola//tube fiddle//lyre//cello//sitar//banjo
23. How are the hooks and suckers of a tapeworm similar in terms of their function?
Both are used for attachment onto the intestinal walls.

The diagram below shows a blood cell. Use it to answer the questions **24** and **25**



24. Name the blood cell shown above.
Red blood cells

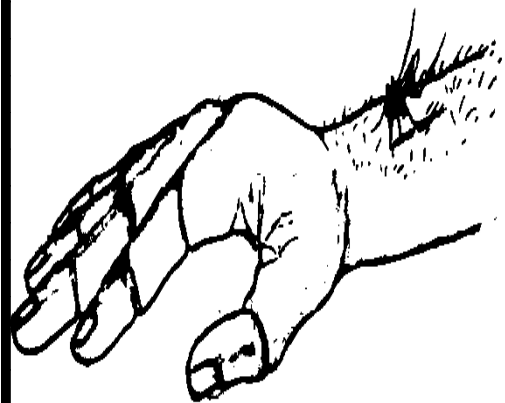
25. Give any **one** way in which the blood cell above is able to carry oxygen round the body. Presence of haemoglobin which absorbs oxygen//they have a disc shape which creates more space for oxygen//they are small and flexible to fit in narrow blood vessels.
26. Write down any **one** danger of failing to brush teeth daily.
Leads to bad breath//leads to tooth decay
27. Give any **one** incidence in which kinetic energy is experienced.
Rolling stone//moving vehicle//flying insect//flying aero plane//
A person walking//running//flowing water//wind
28. How does boiling water for drinking help in the control of dysentery?
Kills germs in water.
29. State any **one** function of the brain to a primary six learner.
For reasoning//for memory//for storing information//for thinking// for body balance.

30. State the property that enables an irregular object to displace the amount of water equal to its volume when immersed in a measuring cylinder with water.
Sinking of objects.
31. Give any **one** sign of malnutrition in children.
Stunted growth//thin body of the child//underweight of the child//swollen abdomen//dry flaky skin//loss of hair on the head//thin brittle hair
32. State any **one** way in which people use wood at home.
For providing wood fuel//for making handles of tools like hoes and pangas//for making seats like benches//for making wooden stools and tables
33. Which method of heat transfer is useful to a tobacco smoker?
Convection /heat transfer by convection
34. Give **one** way in which a whale is able to live in cold water of an ocean yet it is a warm-blooded vertebrate.
A whale has blubber to keep it warm in water.
35. How are plants useful during rain formation in the environment?
They add water vapour to the atmosphere through transpiration.
36. Give any**one** way of caring for the seedling in a nursery bed.
Weeding//thinning//mulching//manuring//watering
37. Why are lice called parasites to human beings?
They depend on other organisms for food and shelter.
38. How is blood transported by pulmonary artery different from that transported by the pulmonary vein during blood circulation?
Pulmonary artery transports deoxygenated blood while pulmonary vein transports oxygenated blood.
39. Name the part of the goat that is removed during castration.
Testes
40. Which force enables a person to push the wheelbarrow easier downhill than uphill?
Gravity /gravitational force/force of gravity

SECTION B: 60 MARKS

41. (a) Name the busiest type of honey bees in the hive.
Worker bees
- (b) Give any**one** advantage of using a top bar hive in bee keeping.
Clean honey is harvested//it is easier to inspect the brood//it is long lasting//it controls swarming in bees
- (c) State any **two** ways in which a bee keeper can protect honey bees from being attacked by bee pests.
Hanging the beehive between poles//smearing oil on the beehive//clearing bushes around the hive

42. The diagram below shows a way in which a vector spreads germs to a person. Study and use it to answer the questions that follow.



- (a) Identify the disease vector shown above.
Mosquito (reject specific name for the mosquito)
- (b) State the way of spreading germs used by the vector above.
Through bites/biting (reject biting/stinging)
- (c) Write down any **two** diseases that person above that person with the hand above is likely to suffer from.
Malaria//yellow fever//elephantiasis//dengue fever//zika disease

43. (a) Give any **two** activities done by crop farmers during land preparation.
Clearing land//ploughing//harrowing//digging//detrashing
- (b) State any **one** way in which crop pests reduce crop yield in the garden.
They damage crops//they spread diseases to crops//they affect the proper growth of crops.
- (c) Name any **one** garden tool that can be used to harvest cereal crops.
sickle//pruning saw//panga//knife

44. (a) Name the part of the mushroom that;
- (i) Produces spores: gills
 - (ii) Absorbs nutrients: mycelium/hyphae
- (b) State any **two** characteristics of fungi.
They feed saprophytically or parasitically//they reproduce asexually//they are mostly multicellular

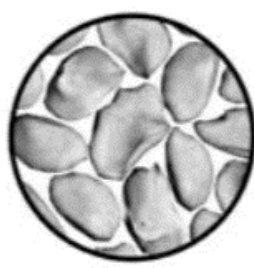
45. (a) Give **one** method used during immunisation.
Injection method//oral method/oral drops
- (b) State any **one** practice that can lower the immunity of an individual.
Smoking//poor feeding//alcoholism//failure to do regular physical exercises
- (c) State any **two** reasons why babies are give a child health card during immunization.
To know the diseases already immunized//to know the remaining dose for the vaccines//to monitor the growth of the baby//to determine the baby's birth weight.

46. (a) Give any **two** examples of vibrating objects.
Ruler//knife//panga//string/thread//spring
- (b) Mention any **two** factors that affect the speed of sound.
Speed of wind//humidity//altitude//temperature
- (c) Apart from being forms of energy, state any **one** way in which sound energy is similar to light energy.
Both can be reflected//both can be absorbed//both travel in all directions//both travel through waves.

47. The diagram below shows the size of soil particles of different types of soil. Study and use them to answer the questions that follow.



Q



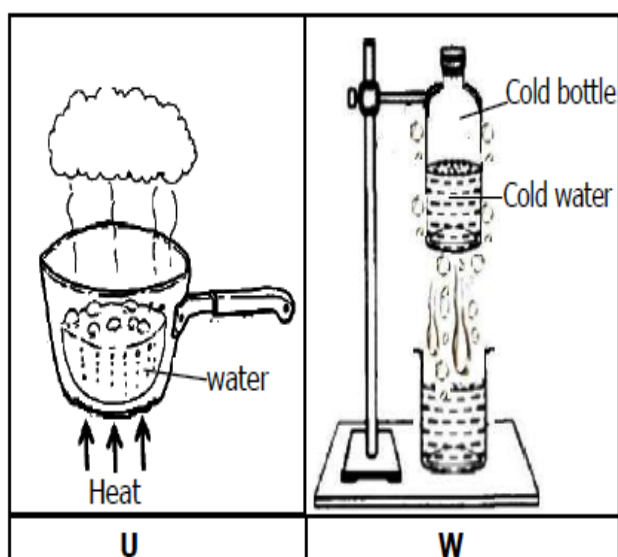
S

- (a) Name the types of soil with the particles marked **Q** and **S**.
- Q** clay soil
 - S** sand soil
- (b) Identify the soil particles suitable for growing rice and sugar canes.
Q
- (c) State any **one** effect of particles marked **S** to the type of soil named in a (ii) above.
They allow water to easily drain through the soil//they make the soil to have low water retention//they increase soil aeration in the soil.

48. (a) Write down any **two** viral diseases that attack poultry.
Newcastle disease//fowl pox//bird flu/avian leucosis//gumboro disease
- (b) Give any **two** ways in which a poultry farmer can control disease outbreak in poultry.
Regular vaccination of birds//Regular sweeping of the coop//Providing feeds in clean containers//Providing waterfor drinking in clean water troughs./containers

49. (a) Name the type of change that takes place when an egg;
- Hatches biological change
 - Breaks physical change
- (b) State any **two** ways of managing body changes in humans.
Regular bathing//shaving overgrown hair//grooming finger and toenails

50. The diagrams below show changes of state of matter. Study and use them to answer the questions that follow.



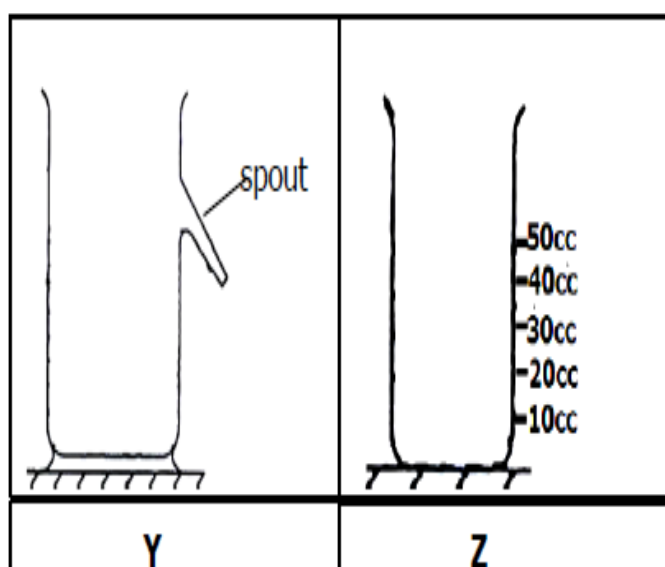
- (a) Name the changes of state of matter marked **U** and **W**
- U** : evaporation
 - W** : condensation
- (b) State any **one** factor that affects the rate of the change of state of matter marked **U**.
Amount of heat//speed of wind// humidity /temperature

- (c) Name any **one** substance that is formed when the process marked **W** takes place.

Water

51. (a) Give **two** reasons why you would place utensils on a rack after washing
For proper drying of the utensils//to prevent contamination of the utensils on the ground.
- (b) Why should a rack be constructed with stands at least 1 metre above the ground?
To prevent contamination of utensils by animals and young children/
/to prevent splashes from dirtying utensils in case it is raining.
- (c) State any **one** danger of leaving utensils for a long time outside on a rack.
Causes fading of utensils//causes rusting of metallic tools.
52. (a) Write down any **two** examples of examples of amphibians.
Toad//frog//salamander//caecilians//newts
- (b) Give any **two** characteristics of amphibians.
They live both in water and on land//they undergo external fertilization except caecilians//they move by hopping or leaping
53. (a) Give the meaning of the following terms:
(i) Docking : cutting the tail of the sheep short.
(ii) Browsing: feeding of goats on shrubs and tree twigs.
- (b) Give any **two** ways of increasing milk production in dairy goats.
Proper feeding//regular vaccination//provision of plenty of clean water for the goats to drink//proper housing (reject crossbreeding)
54. (a) Apart from the elderly people, write down any **two** examples of people with special needs in the community.
The blind//the sick//the dumb//the crippled//the deaf
- (b) State any **one** way of caring for people with special needs.
Bathing them//washing their clothes//proper feeding//helping them to push their wheel-chairs//treating the sick.
- (c) What problem do elderly people face when they lose their molar teeth?
Failure to chew/grind/crush food properly.

55. The diagrams below show containers used in measurement. Study and use them to answer the questions that follow.



- (a) Name the containers marked **Y** and **Z**.
- i) **Y** : overflow can/eureka can
 - ii) **Z** : measuring cylinder
- (b) How is the spout useful on the container **Y**
The spout directs water to the measuring cylinder during displacement.
- (c) Which method of finding volume involves the use of the containers above?
Displacement method

Prepared by

1. Mr. Jamie Humphrey
2. Mr. Kayondo Sulait

0757 451425
0706 131885

