

PRIMARY LEAVING EXAMINATION 2022 SOLUTIONS / ANSWERS

SECTION A

1. Axillary / Lateral bud
2. Near a water source / Near flowering plants / Noise free place / Away from schools / Homes / Road/ Markets / Under a shade / Away from bad smell / smoke free environment
3. Building the body / Body growth / Repair worn out body tissues / Replace body cells
4. Helps in rain / Cloud formation / Separation of mixtures / Used in drying clothes / Harvested crops
5. Prevents indigestion / for easy swallowing / Digestion / Prevent choking
6. Wearing clean / Dry socks / Dry feet properly before wearing shoes / wear well fitting shoes / avoid wearing wet / Socks / Shoes / Avoid sharing shoes / Socks / Shoes / Socks regularly / Treat with enough with fungicides / Cream and powder
7. Concave / Diverging lens
8. Draining stagnant water / Clearing bushes around the community / Filling up pot holes / Pouring oil on stagnant water / Sensitizing the community about malaria control / Growing replant trees / Removing / Destroying containers that can hold water / Advising people to sleep under mosquito nets / Composing songs / Poems / Plays / Hanging posters / Holding talk shows about control of malaria
9. Pulp cavity
10. The stone displaces water in the container equal to its volume
11. Causes lung cancer / Emphysema / Worsens Asthma / Bronchitis / Tuberculosis / Whooping cough
12. Personal hygiene / Immunization/control of communicable diseases / Health Education / Water and Sanitation
13. Crops which grow and mature within one year
15. Using other alternative sources of energy / Solar / Biogas / Electricity / Geothermal / Wood fuel/ Riding bicycles / Animal transport / Horses / Camels/Donkeys/Using fuels sparingly / Turning off engines after use / Carryout controlled mining / Walk short distances
16. Black flies / Jinja fly / Simulium fly / Simuliids
17. Ear tagging
18. Helps in identifying his goats
19. Sunny weather
20. Cross a busy road at a zebra crossing / Traffic island / Traffic bridge / Fly overs / Road humps / Underground tunnels /

21. Subways / Where there are Traffic lights / guides / Lollipops / Avoid crossing while playing on the road / In a corner.
22. Lungs / the heart
23. When the bulb filament is blown / Dry cells / are used up Exhausted
24. Bathing daily / regularly / Washing clothes / Shaving / Trimming public / armpit hair / Applying deodorants / Antiperspirants / Changing underpants
25. Sorting clothing according to colour / Dirt Reptilia / Reptile
26. Withdrawing / Hiding in its hard shell
27. Isolating sick people from healthy ones / Treat infected people early enough / taking children for immunization / vaccination / putting on face masks / gloves / Avoid sharing utensils / cups / forks / spoons / Boil milk properly before taking it / Avoid overcrowded places that are not properly ventilated.
28. Leaving food uncovered / Serving / Storing food in dirty containers / environment / handling food with dirty hands.
29. Molecules are closely packed unlike other states
30. Advising children not to touch electric appliances / switches / sockets with wet hands / Repair broken appliances / installing electricity by experts / Reporting electricity faults to umeme / keep floors of houses dry all the time / advising children not to put metallic objects into sockets
31. Making joints more flexible / Strengthens bones and muscles / Reduce body fat / Promote physical fitness
32. Both reproduce by means of spores / both undergo a sexual reproduction.
33. Ash reduces bad smell / Absorbs moisture from urine around the pit hole / Reduces attraction of houseflies
34. Carbon dioxide / Water vapour
35. Planting trees / Cover grass in the environment / Removing plastic materials / polythene bags plastics bottles from the environment /sensitizing the community on dangers of environmental degradation
36. Covering ceilings / walls with soft/ Porous boards / covering windows with soft curtains / Floors with thick / woolen carpets / Covering seats with soft cushions / Covering seats with soft cushions / covering walls with bamboo / papyrus carpets / thick blankets
37. Softens the testa / Dissolves nutrients in the cotyledon for the embryo to use.
38. Tapeworms feed on digested food
39. keep all medicines out of the reach of children / Avoid putting drugs in beverage bottles
40. Reduces light intensity / transpiration / humidity / evaporation / evapo-transpiration / temperature in an area.
41. SECTION B

- a) Chemical change
- b) Physical change
- c) Biological change
- d) Physical change

42.	a) i) General cleanliness of the environment / place / area ii) General cleanliness of the body and things we use / general cleanliness of the body. b) Cleaning / sweeping / scrubbing latrines / Sweeping/ mopping / dusting classrooms / picking rubbish / draining stagnant water / cleaning water / sources / spraying to kill vectors / slashing tall grass	c) Prevents overcrowding of plants d) Removes unwanted plants
43.	a) Zero grazing b) Farm yard manure c) Animals are protected from predators / Harsh weather / Pests / parasites / Diseases / Feeds are not wasted / Animals don't d) Have very thin walls / Are surrounded by a fluid / Moist and permeable. go long distances to graze therefore there is increased production / Easy to monitor the animals / It is time saving / Animals don't stray to destroy crops / It is easy to identify animals on heat / There is easy record keeping of each animal.	50. a) i) Animal dispersal ii) Water dispersal b) Reduce competition for sunlight / nutrients among plants / Enables plants to occupy / colonize new areas / Reduces overcrowding of plants in an area / Prevents plant extinction.
44.	a) First class lever b) $L \times L.A = E \times E.A$ $40\text{kgs} \times 2.5\text{m} = E \times 4\text{m}$ $100\text{kg} = \frac{4}{4}$ $E = 25\text{kgs}$	51. a) Bronchus / Left bronchus b) Rings of cartilage / Cartilage c) It is where gaseous exchange takes place / Gaseous exchange d) Moves downwards and becomes flat / it flattens / contracts
45.	a) Vena Cava b) De oxygenated blood c) Have thick walls / narrow lumen / hole d) Have very thin walls / Are surrounded by a fluid / Moist and permeable.	52. a) i) Liquids ii) Gases / Gaseous state b) Help in rain formation / keeping alit cigarette burning / Boiling water / Removing bad smell from a vip / Latrine / Allowing free air circulation in a room / house / helps in lighting charcoal stoves / ironing boxes / lanterns / formation of sea / land breezes which cool the environment
46.	a) i) Flat worms ii) Round worms / Nematodes b) Help in breakdown of organic matter / formation of humus / improve soil fertility / drainage / structure.	53. a) i) Growing of trees, crops and rearing of animals on the same piece of land / Growing crops together with trees on the same piece of land. ii) Growing of different crops on the same piece of land. b) Should be deep rooted / Have leaves that allow light to pass through easily / Have leaves which decompose easily / Add fertility in soil / Quick maturing / Should be able to provide shade / timber / wood fuel / fruits / Be multipurpose / Pest/Disease / Drought resistant.
47.	a) Soil drainage b) Prevents soil from falling into the container / Filters water through the soil c) Sample A d) Little water was collected in A	54. a) i) Measure one litre of cool boiled water ii) Measure one leveled teaspoon of salt and eight leveled teaspoons of sugar iii) Stir the mixture to form a solution iv) Taste the solution formed and give to the victim.
48.	a) Causes brain damage / Loss of sleep / insomnia Damages the liver / stomach / causes sores in the mouth / lips turn red / causes peptic ulcers / leads to loss of appetite / Concentration / Causes high blood pressure. b) Be assertive / Avoid bad social peer groups / Join useful social clubs / Religious groups / Church choirs / Reading the bible / Joining health / Sports clubs / Attending guidance / Counseling sessions / Getting enough information about dangers of chewing miraa.	55. a) Crushed bones / Egg shells / Sea / Snail / Oyster / Cowrie shells b) Proper feeding / Feeding birds on balanced diet / Treating sick birds / Vaccination / Deworming / Maintain proper hygiene / Proper housing / Dusting birds with chemicals
49.	a) Prevents fruits from rotting b) Conserves soil moisture	